

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT ☐
(highlight changes)

APPLICATION FOR PERMIT TO DRILL		5. MINERAL LEASE NO: ML-22794	6. SURFACE: State
1A. TYPE OF WORK: DRILL <input checked="" type="checkbox"/> REENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/>		7. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
B. TYPE OF WELL: OIL <input type="checkbox"/> GAS <input checked="" type="checkbox"/> OTHER _____ SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input checked="" type="checkbox"/>		8. UNIT or CA AGREEMENT NAME: UNIT #891008900A	
2. NAME OF OPERATOR: KERR MCGEE OIL & GAS ONSHORE L.P.		9. WELL NAME and NUMBER: NBU 1021-31A	
3. ADDRESS OF OPERATOR: 1368 S 1200 E CITY VERNAL STATE UT ZIP 84078		PHONE NUMBER: (435) 781-7024	10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 744'FNL, 815'FEL AT PROPOSED PRODUCING ZONE:		11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENE 31 10S 21E	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: 17.7 MILES SOUTH OF OURAY, UTAH		12. COUNTY: UINTAH	13. STATE: UTAH
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) 744'	16. NUMBER OF ACRES IN LEASE: 643.12	17. NUMBER OF ACRES ASSIGNED TO THIS WELL: 40.00	
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) REFER TO TOPO C	19. PROPOSED DEPTH: 9,270	20. BOND DESCRIPTION: RLB0005237	
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): 5293'GL	22. APPROXIMATE DATE WORK WILL START:	23. ESTIMATED DURATION:	

24. PROPOSED CASING AND CEMENTING PROGRAM							
SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT			SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT		
12 1/4"	9 5/8	32.3#	H-40	1,900	265 SX CLASS G	1.18 YIELD	15.6 PPG
7 7/8"	4 1/2	11.6#	I-80	9,270	1960 SX CLASS G	1.31 YIELD	14.3 PPG

25. ATTACHMENTS	
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES:	
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN
<input checked="" type="checkbox"/> EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER	<input type="checkbox"/> FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER

NAME (PLEASE PRINT) SHEILA UPCHEGO TITLE SENIOR LAND ADMIN SPECIALIST
SIGNATURE  DATE 2/28/2007

(This space for State use only)

API NUMBER ASSIGNED: 43-047-39111

Approved by the
Utah Division of
Oil, Gas and Mining

APPROVAL:

Date: 06-12-07

(See Instructions on Reverse Side)

By: 

RECEIVED

MAR 16 2007

DIV. OF OIL, GAS & MINING

T10S, R21E, S.L.B.&M.

Kerr-McGee Oil & Gas Onshore LP

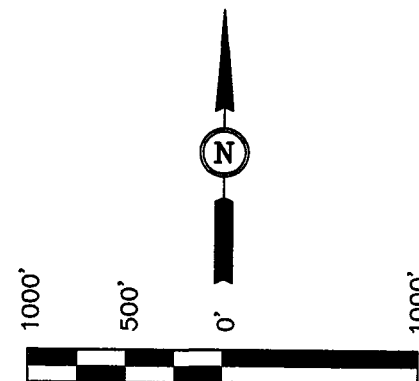
Well location, NBU #1021-31A, located as shown in the NE 1/4 NE 1/4 of Section 31, T10S, R21E, S.L.B.&M., Uintah County, Utah.

BASIS OF ELEVATION

TWO WATER TRIANGULATION STATION LOCATED IN THE NW 1/4 OF SECTION 1, T10S, R21E, S.L.B.&M. TAKEN FROM THE BIG PACK MTN NE, QUADRANGLE, UTAH, UTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5238 FEET.

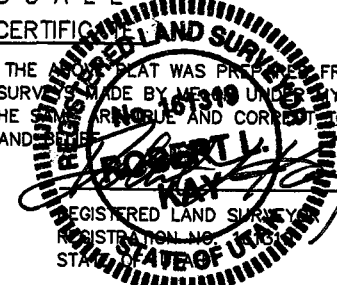
BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



SCALE
CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEY MADE BY ME IN MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST - VERNAL, UTAH 84078
(435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 12-26-06	DATE DRAWN: 12-28-06
PARTY N.H. G.S. S.L.	REFERENCES G.L.O. PLAT	
WEATHER COLD	FILE Kerr-McGee Oil & Gas Onshore LP	

R
22
E

R
21
E

N89°00'37"W - 5357.81' (Meas.)

1/2" Rebar 0.6'
High, Pile of
Stones, Set Stone

Brass Cap, Flush W/
Pile of Stones

Lot 1

NBU #1021-31A

Elev. Ungraded Ground = 5293'

744'

815'

Set Marked
Stone

Lot 2

Brass Cap

31

Lot 3

Lot 4

1977 Brass Cap,
Flush With Pile
of Stones

Set Marked Stone,
Scattered Stones

Set Marked Stone,
Scattered Stones

Set Marked
Stone, Pile
of Stones

1991 Alum. Cap,
1.3' High, Pile of
Stones

T10S

T11S

S89°43'43"W
1332.86' (Meas.)

S89°45'55"W
1329.59' (Meas.)

S89°55'19"W
1325.27' (Meas.)

N89°08'48"W
1328.55' (Meas.)

Sec. 6

Sec. 5

LEGEND:

└─┘ = 90° SYMBOL

● = PROPOSED WELL HEAD.

▲ = SECTION CORNERS LOCATED.

(NAD 83)

LATITUDE = 39°54'33.26" (39.909239)

LONGITUDE = 109°35'16.43" (109.587897)

(NAD 27)

LATITUDE = 39°54'33.38" (39.909272)

LONGITUDE = 109°35'13.95" (109.587208)

Application for Permit to Drill

Statement of Basis

4/17/2007

Utah Division of Oil, Gas and Mining

Page 1

APD No	API WellNo	Status	Well Type	Surf Ownr	CBM
311	43-047-39111-00-00		GW	S	No
Operator	KERR-MCGEE OIL & GAS ONSHORE, LP	Surface Owner-APD			
Well Name	NBU 1021-31A	Unit			
Field	UNDESIGNATED	Type of Work			
Location	NENE 31 10S 21E S 744 FNL 815 FEL	GPS Coord (UTM) 620754E 4418441N			

Geologic Statement of Basis

Kerr McGee proposes to set 1,900' of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 3,800'. A search of Division of Water Rights records shows no water wells within a 10,000 foot radius of the center of Section 31. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. Production casing cement should be brought up above the base of the moderately saline ground water to isolate it from fresher waters uphole.

Brad Hill
APD Evaluator

4/17/2007
Date / Time

Surface Statement of Basis

The general area is within the Love area of Natural Buttes Unit in the upper Cottonwood Wash Drainage. The area is characterized by rolling hills and benches, which are frequently intersected by somewhat gentle draws, which flow into Cottonwood Wash. The draws are occasionally rimmed with steep side hills, which have exposed sand stone bedrock cliffs along the rims. Cottonwood Wash is an ephemeral drainage, which drains northerly approximately 11 miles to the White River. No seeps, springs or streams exist in the area. An occasional pond collecting runoff for livestock and antelope occurs.

This location is approximately 18 miles southeast of Ouray, Utah and is accessed by the Seep Ridge Road then by existing or planned oil field development roads to within 320 feet of the proposed site. New construction will be required from this point.

The proposed location is in a flat with little change in terrain except for a few minor swales. The flat has a slight slope to the north. It is located between side tributaries of Cottonwood Wash that is about 1.2 miles to the east. No drainage concerns exist

Both the surface and minerals are owned by SITLA. Jim Davis represented SITLA at the pre-site investigation. Mr. Davis had no concerns pertaining to this location. The selected location appears to be the best site for drilling and operating a well in the immediate area.

Floyd Bartlett
Onsite Evaluator

4/5/2007
Date / Time

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 16 mils with a felt subliner shall be properly installed and maintained in the reserve pit.

**NBU 1021-31A
NE/NE SEC. 31, T10S, R21E
UINTAH COUNTY, UTAH
ML-22794**

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. Estimated Tops of Important Geologic Markers:

<u>Formation</u>	<u>Depth</u>
Uinta	0- Surface
Green River	1063'
Top of Birds Nest Water	1272'
Mahogany	1794'
Wasatch	4198'
Mesaverde	7100'
MVU2	8100'
MVL1	8595'
TD	9270'

2. Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
Water	Green River	1063'
	Top of Birds Nest Water	1272'
	Mahogany	1794'
Gas	Wasatch	4198'
Gas	Mesaverde	7100'
Gas	MVU2	8100'
Gas	MVL1	8595'
Water	N/A	
Other Minerals	N/A	

3. Pressure Control Equipment (Schematic Attached)

Please refer to the attached Drilling Program.

4. Proposed Casing & Cementing Program:

Please refer to the attached Drilling Program.

5. Drilling Fluids Program:

Please refer to the attached Drilling Program.

6. Evaluation Program:

Please refer to the attached Drilling Program.

7. **Abnormal Conditions:**

Maximum anticipated bottomhole pressure calculated at 9270' TD, approximately equals 5747 psi (calculated at 0.62 psi/foot).

Maximum anticipated surface pressure equals approximately 3708 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. **Anticipated Starting Dates:**

Drilling is planned to commence immediately upon approval of this application.

9. **Variances:**

Please refer to the attached Drilling Program.

10. **Other Information:**

Please refer to the attached Drilling Program.



COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP	DATE	March 1, 2007
WELL NAME	NBU 1021-31A	TD	9,270' MD/TVD
FIELD	Natural Buttes	COUNTY	Uintah
		STATE	Utah
ELEVATION	5,293' GL	KB	5,308'
SURFACE LOCATION	NE/NE SEC. 31, T10S, R21E 744'FNL, 815'FEL	BHL	Straight Hole
	Latitude: 39.909239	Longitude:	109.587897
OBJECTIVE ZONE(S)	Wasatch/Mesaverde		
ADDITIONAL INFO	Regulatory Agencies: UDOGM (SURF & MINERALS), BLM, Tri-County Health Dept.		

GEOLOGICAL FORMATION			MECHANICAL		
LOGS	TOPS	DEPTH	HOLE SIZE	CASING SIZE	MUD WEIGHT
		40'		14"	
Catch water sample, if possible, from 0 to 4,198' Green River @ 1,063' Top of Birds Nest Water @ 1272' Mahogany @ 1,794' Preset f/ GL @ 1,900' MD			12-1/4"	9-5/8", 32.3#, H-40, STC	Air mist
Note: 12.25" surface hole will usually be drilled ±400' below the bottom of lost circulation zone. Drilled depth may be ±200' of the estimated set depth depending on the actual depth of the loss zone.					
Mud logging program TBD Open hole logging program f/ TD - surf csg			7-7/8"	4-1/2", 11.6#, I-80 or equivalent LTC casing	Water/Fresh Water Mud 8.3-11.3 ppg
	Wasatch @	4,198'			
	Mverde @	7,100'			
	MVU2 @	8,100'			
	MVL1 @	8,595'			
	TD @	9,270'			Max anticipated Mud required 11.3 ppg



KERR-McGEE OIL & GAS ONSHORE LP **DRILLING PROGRAM**

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'				2270	1370	254000
SURFACE	9-5/8"	0 to 1900	32.30	H-40	STC	0.67*****	1.54	4.73
						7780	6350	201000
PRODUCTION	4-1/2"	0 to 9270	11.60	I-80	LTC	2.28	1.17	2.14

- 1) Max Anticipated Surf. Press.(MASP) (Surface Casing) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point))
2) MASP (Prod Casing) = Pore Pressure at TD - (.22 psi/ft-partial evac gradient x TD)
(Burst Assumptions: TD = 11.3 ppg) .22 psi/ft = gradient for partially evac wellbore
(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*BuoY.Fact. of water)
MASP 3408 psi

***** Burst SF is low but csg is much stronger than formation at 2000'. EMW @ 2000' for 2270# is 21.8 ppg or 1.13 psi/ft

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE Option 1	LEAD	500	Premium cmt + 2% CaCl + .25 pps flocele	215	60%	15.60	1.18
	TOP OUT CMT (1)	200	20 gals sodium silicate + Premium cmt + 2% CaCl + .25 pps flocele	50		15.60	1.18
	TOP OUT CMT (2)	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
SURFACE Option 2	LEAD	1500	NOTE: If well will circulate water to surface, option 2 will be utilized Prem cmt + 16% Gel + 10 pps gilsonite +.25 pps Flocele + 3% salt BWOC	170	35%	11.00	3.82
	TAIL	500	Premium cmt + 2% CaCl + .25 pps flocele	180	35%	15.60	1.18
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION	LEAD	3,690'	Premium Lite II + 3% KCl + 0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	400	60%	11.00	3.38
	TAIL	5,580'	50/50 Poz/G + 10% salt + 2% gel +.1% R-3	1560	60%	14.30	1.31

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe.
PRODUCTION	Float shoe, 1 jt, float collar. Centralize first 3 joints & every third joint to top of tail cement with bow spring centralizers.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. Test to 5,000 psi (annular to 2,500 psi) prior to drilling out. Record on chart recorder & tour sheet. Function test rams on each trip. Maintain safety valve & inside BOP on rig floor at all times. Kelly to be equipped with upper & lower kelly valves.

Drop Totco surveys every 2000'. Maximum allowable hole angle is 5 degrees.

Most rigs have PVT Systems for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER:

Brad Laney

DATE:

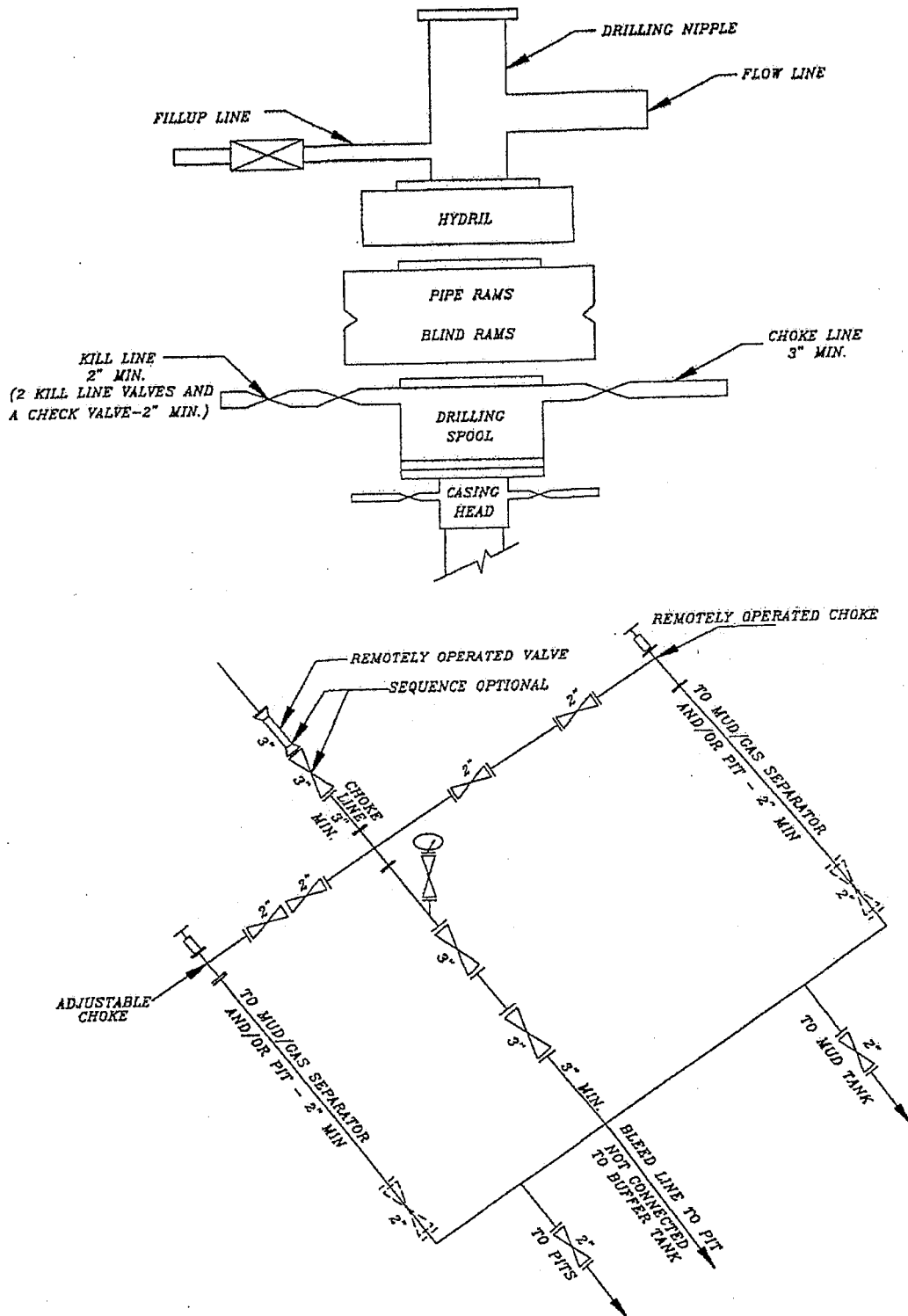
DRILLING SUPERINTENDENT:

Randy Bayne

DATE:

NBU1021-31A DHD.xls

5M BOP STACK and CHOKE MANIFOLD SYSTEM



**NBU 1021-31A
NE/NE SEC. 31, T10S, R21E
Uintah County, UT
ML-22794**

ONSHORE ORDER NO. 1

MULTI-POINT SURFACE USE & OPERATIONS PLAN

1. Existing Roads:

Refer to Topo Map A for directions to the location.

Refer to Topo Maps A and B for location of access roads within a 2-mile radius.

Refer to Topo Maps A and B for location of access roads within a 2 mile radius.

All existing roads will be maintained and kept in good repair during all drilling and completion operations associated with this well.

2. Planned Access Roads:

Approximately 320' +/- of new access road is proposed. Refer to Topo Map B for the location of the proposed access road.

The upgraded and new portions of the access road will be crowned and ditched with a running surface of 18 feet and a maximum disturbed width of 30 feet. Appropriate water control will be installed to control erosion.

Existence of pipelines; maximum grade; turnouts; major cut and fills, culverts, or bridges; gates, cattle guards, fence cuts, or modifications to existing facilities were determined at the on-site.

The access road was centerline flagged during time of staking.

Surfacing material may be necessary, depending upon weather conditions.

Surface disturbance and vehicular traffic will be limited to the approved location and approved access route. Any additional area needed will be approved in advance.

3. Location of Existing Wells Within a 1-Mile Radius:

Please refer to Topo Map C.

4. Location of Existing & Proposed Facilities:

The following guidelines will apply if the well is productive.

All production facilities will be located on the disturbed portion of the well pad and at a minimum of 25 feet from the toe of the back slope or the top of the fill slope.

A dike will be constructed completely around those production facilities which contain

fluids (i.e., production tanks, produced water tanks, and/or heater/treater). These dikes will be constructed of compacted subsoil, be impervious, hold 100% of the capacity of the largest tank, and be independent of the back cut.

All permanent (on-site six months or longer) above the ground structures constructed or installed, including pumping units, will be painted a flat, non-reflective, earthtone color to match one of the standard environmental colors, as determined by the five state Rocky Mountain Inter-Agency Committee.

All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded. The required color is Carlsbad Canyon, standard color number 2.5Y 6/2.

Any necessary pits will be properly fenced to protect livestock and prevent wildlife entry.

Approximately 263' +/- of 4" steel pipeline is proposed. Please refer to the attached Topo Map D for pipeline placement.

5. Location and Type of Water Supply:

Water for drilling purposes will be obtained from Dalbo Inc.'s underground well located in Ouray, Utah, Sec. 32, T4S, R3E, Water User Claim #43-8496, Application #53617.

Water will be hauled to location over the roads marked on Maps A and B.

No water well is to be drilled on this lease.

6. Source of Construction Materials:

Surface and subsoil materials in the immediate area will be utilized.

Any gravel will be obtained from a commercial source.

7. Methods of Handling Waste Materials:

Drill cuttings will be contained and buried in the reserve pit.

Drilling fluids, including salts and chemicals, will be contained in the reserve pit. Upon termination of drilling and completion operations, the liquid contents of the reserve pit will be removed and disposed of at an approved waste disposal facility within 120 days after drilling is terminated.

The reserve pit will be constructed on the location and will not be located within natural drainage, where a flood hazard exists or surface runoff will destroy or damage the pit walls. The reserve pit will be constructed so that it will not leak, break, or allow discharge of liquids.

A plastic reinforced liner and felt will be used, it will be a minimum of 20 mil thick, with sufficient bedding used to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash or scrap that could puncture the liner will be disposed of in the pit.

Any spills of oil, gas, salt water, or other noxious fluids will be immediately cleaned up and removed to an approved disposal site.

A chemical porta-toilet will be furnished with the drilling rig.

Garbage, trash, and other waste materials will be collected in a portable, self-contained, fully enclosed trash cage during operations. No trash will be burned on location.

All debris and other waste material not contained in the trash cage will be cleaned up and removed from the location immediately after removal of the drilling rig.

Any open pits will be fenced during the operations. The fencing will be maintained until such time as the pits are backfilled.

No chemicals subject to reporting under SARA Title III (hazardous materials) in an amount greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling of this well.

Any produced water from the proposed well will be contained in a water tank and will then be hauled By truck to one of the pre-approved disposal sites: RNI, Sec. 5, T9S, R22E, NBU #159, Sec. 35, T9S, R21E, Ace Oilfield, Sec. 2, T6S, R20E, MC&MC, Sec. 12, T6S, R19E.

8. Ancillary Facilities:

None are anticipated.

9. Well Site Layout: (See Location Layout Diagram)

The attached Location Layout Diagram describes drill pad cross-sections, cuts and fills, and locations of the mud tanks, reserve pit, flare pit, pipe racks, trailer parking, spoil dirt stockpile(s), and surface material stockpile(s).

Please see the attached diagram to describe rig orientation, parking areas, and access roads.

The reserve pit will be lined, and when the reserve pit is closed, the pit liner will be buried below plow depth.

All pits will be fenced according to the following minimum standards:

39 inch net wire will be used with at least one strand of barbed wire on top of the net wire. Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence.

The net wire shall be no more than two inches above the ground. The barbed wire shall be three inches over the net wire. Total height of the fence shall be at least 42 inches.

Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.

Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance

between any 2 fence posts shall be no greater than 16 feet.

All wire shall be stretched, by using a stretching device, before it is attached to corner posts.

The reserve pit fencing will be on three sides during drilling operations, and on the fourth side when the rig moves off location. Pits will be fenced and maintained until cleanup.

Location size may change prior to the drilling of the well due to current rig availability. If the proposed location is not large enough to accommodate the drilling rig the location will be re-surveyed and a Form 9 shall be submitted.

10. Plans for Reclamation of the Surface:

Producing Location:

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, materials, trash, and debris not required for production.

Immediately upon well completion, any hydrocarbons in the pit shall be removed in accordance with 43 CFR 3162.7-1.

A plastic, nylon reinforced liner will be used, it shall be torn and perforated before backfilling of the reserve pit.

Before any dirt work associated with location restoration takes place, the reserve pit shall be as dry as possible. All debris in it will be removed. Other waste and spoil materials will be disposed of immediately upon completion of operations.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximate natural contours. The reserve pit will be reclaimed within 90 days from the date of well completion, weather permitting.

To prevent surface water (s) from standing (ponding) on the reclaimed reserve pit area, final reclamation of the reserve pit will consist of "mounding" the surface three feet above surrounding ground surface to allow the reclaimed pit area to drain effectively.

Upon completion of backfilling, leveling, and recontouring, the stockpiled topsoil will be spread evenly over the reclaimed area(s).

Dry Hole/Abandoned Location:

Abandoned well sites, roads, and other disturbed areas will be restored as near as practical to their original condition. Where applicable, these conditions include the re-establishment of irrigation systems, the re-establishment of appropriate soil conditions, and re-establishment of vegetation as specified.

All disturbed surfaces will be recontoured to the approximate natural contours, with reclamation of the well pad and access road to be performed as soon as practical after final abandonment. Reseeding operations will be performed after completion of other reclamation operations.

11. Surface Ownership:

SITLA
675 East 500 South, Suite 500
Salt Lake City, UT 84102

12. Other Information:

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, the approved Plan of Operations, and any applicable Notice of Lessees. The Operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance.

The Operator will control noxious weeds along Rights-Of-Way for roads, pipelines, well sites, or other applicable facilities.

A Class III archaeological survey will be submitted when report becomes available.

This location is not within 460' from the boundary of the Natural Buttes Unit, nor is it within 460' of any non-committed tract lying within the boundaries of the Unit.

13. Lessee's or Operators's Representative & Certification:

Sheila Upchego
Senior Land Admin Specialist
Kerr-McGee Oil & Gas Onshore LP
1368 South 1200 East.
Vernal, UT 84078
(435) 781-7024

Randy Bayne
Drilling Manager
Kerr-McGee Oil & Gas Onshore LP
1368 South 1200 East
Vernal, UT 84078
(435)781-7018

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by State Surety Bond #RLB0005237.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed by the Operator, its contractors, and subcontractors in conformity with this plan and the terms and conditions under which it is approved.


Sheila Upchego

2/28/2007

Date

Kerr-McGee Oil & Gas Onshore LP

NBU #1021-31A

SECTION 31, T10S, R21E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; TURN LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 15.6 MILES ON THE SEEP RIDGE ROAD TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 1.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTH; TURN LEFT AND PROCEED IN A NORTHERLY DIRECTION APPROXIMATELY 0.4 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN LEFT AND PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 0.4 MILES TO THE BEGINNING OF THE PROPOSED ACCESS TO THE SOUTHWEST; FOLLOW ROAD FLAGS IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 320' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 48.7 MILES.

Kerr-McGee Oil & Gas Onshore LP

NBU #1021-31A

LOCATED IN UINTAH COUNTY, UTAH
SECTION 31, T10S, R21E, S.L.B.&M.

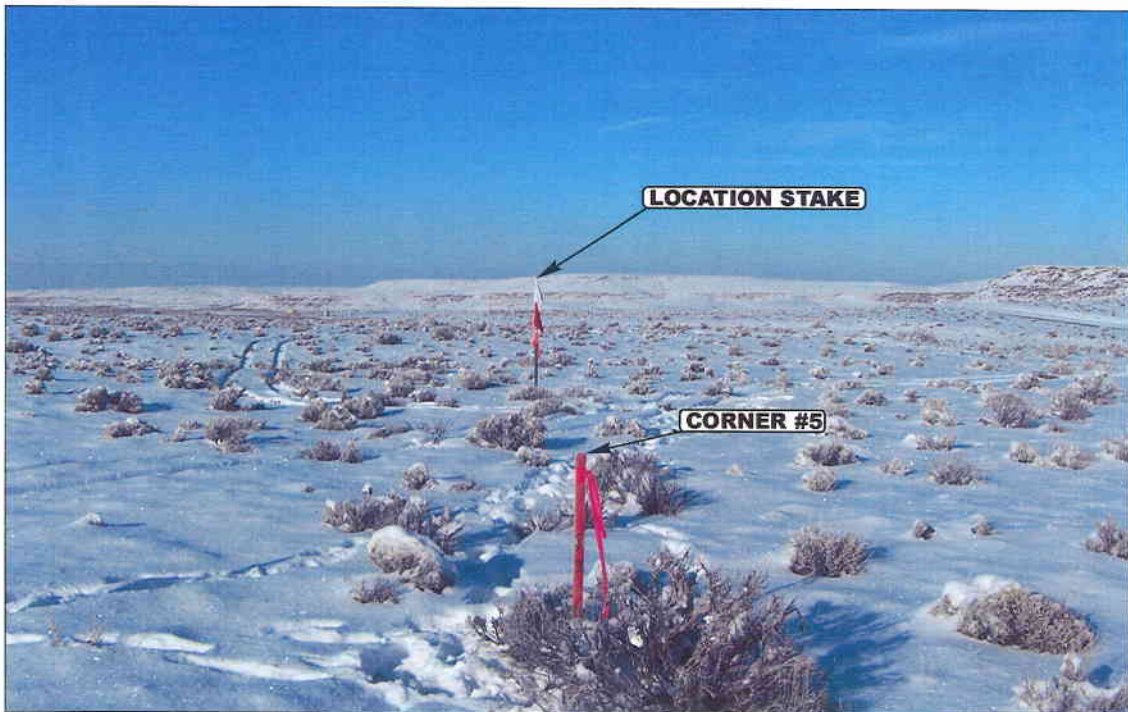


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: NORTHERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: SOUTHWESTERLY



- Since 1964 -

UELS Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
435-789-1017 uels@uelsinc.com

LOCATION PHOTOS

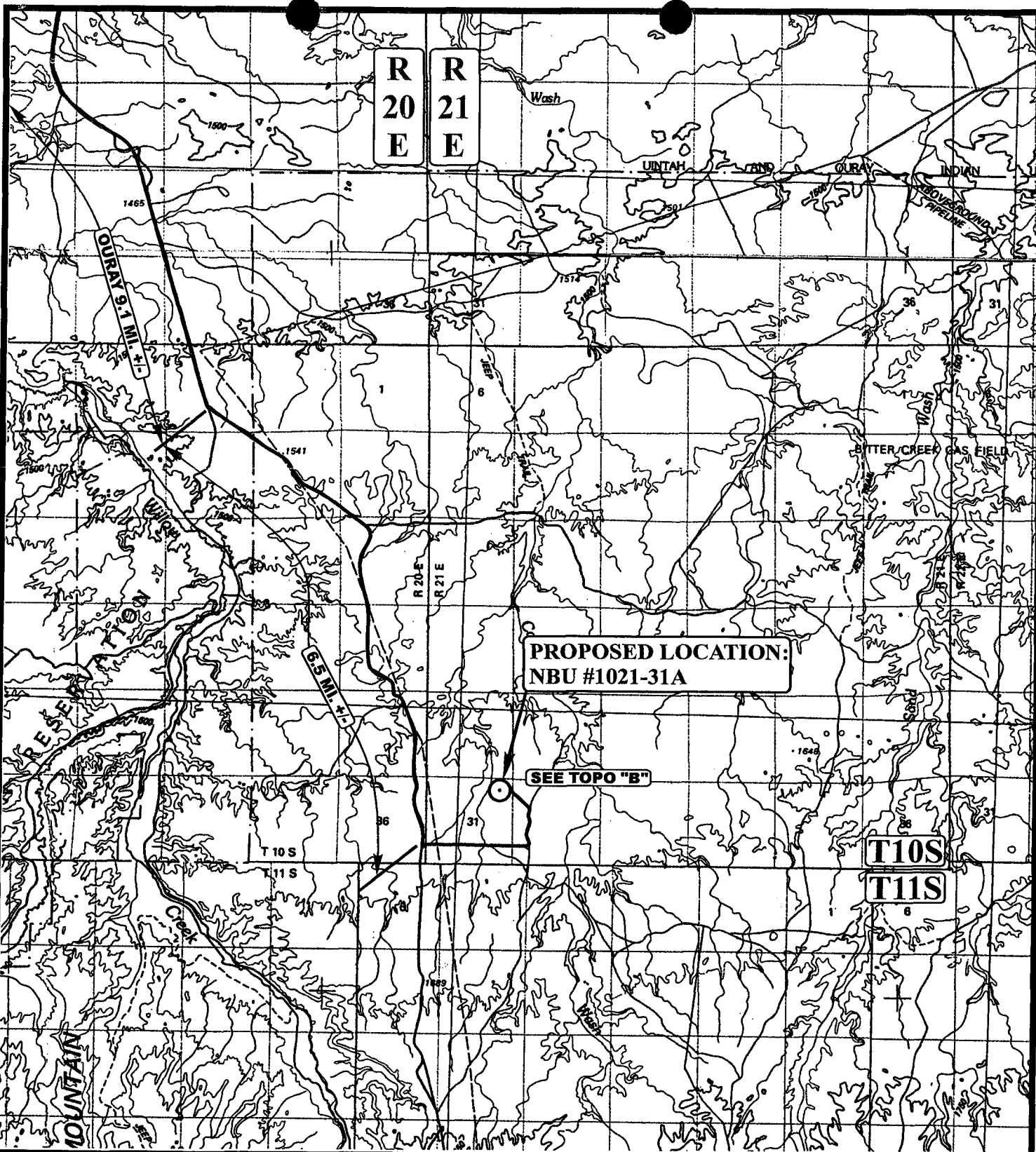
12 **17** **06**
MONTH DAY YEAR

PHOTO

TAKEN BY: N.H.

DRAWN BY: A.A.

REVISED: 00-00-00



LEGEND:

○ PROPOSED LOCATION



Kerr-McGee Oil & Gas Onshore LP

NBU #1021-31A

SECTION 31, T10S, R21E, S.L.B.&M.

744' FNL 815' FEL



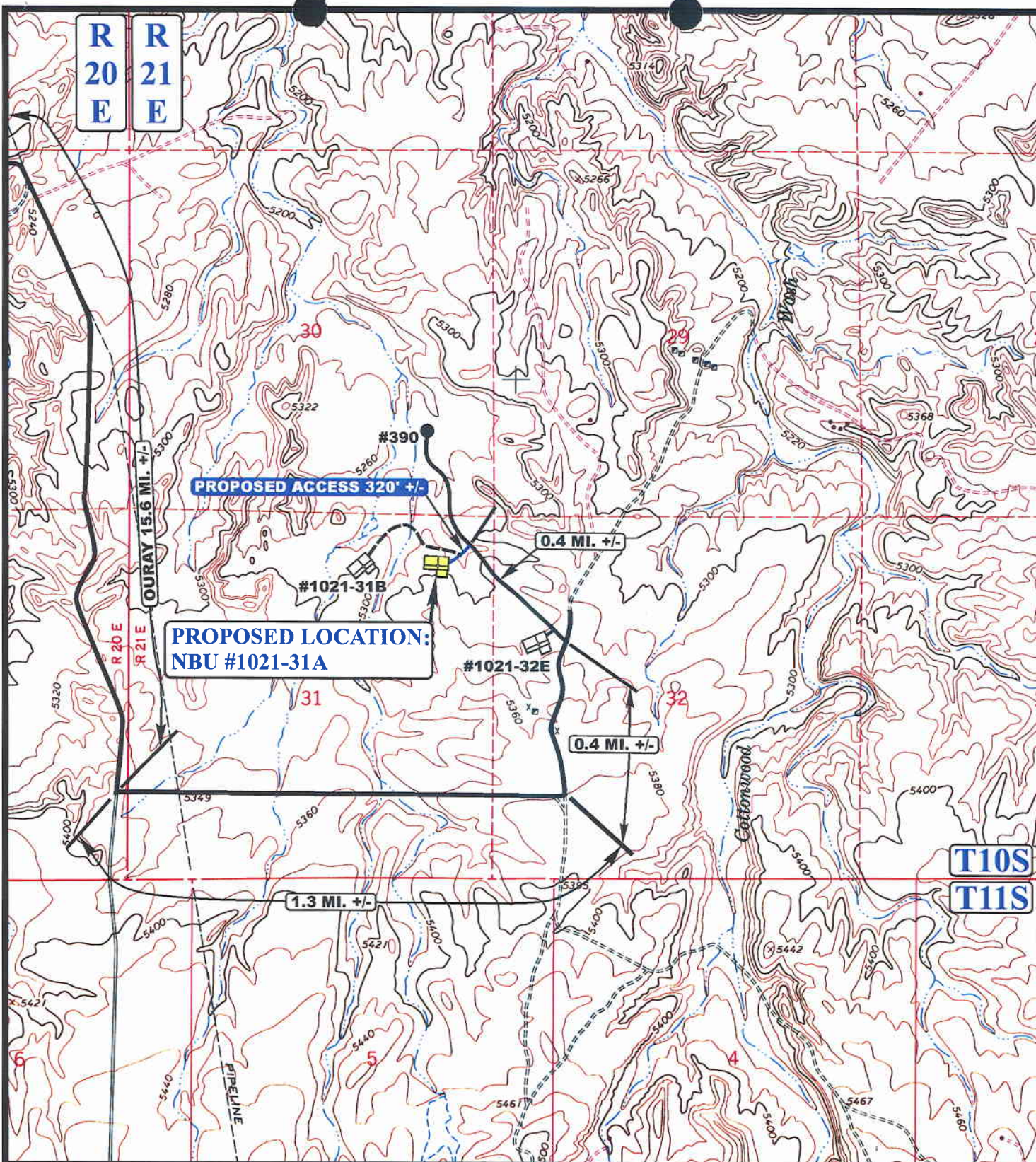
Utah Engineering & Land Surveying
 85 South 200 East Vernal, Utah 84078
 (435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC
MAP

12 17 06
 MONTH DAY YEAR

SCALE: 1:100,000 **DRAWN BY: A.A.** **REVISED: 00-00-00**





LEGEND:

— EXISTING ROAD
 - - - PROPOSED ACCESS ROAD

Kerr-McGee Oil & Gas Onshore LP

NBU #1021-31A
SECTION 31, T10S, R21E, S.L.B.&M.
744' FNL 815' FEL



Uintah Engineering & Land Surveying
 85 South 200 East Vernal, Utah 84078
 (435) 789-1017 * FAX (435) 789-1813

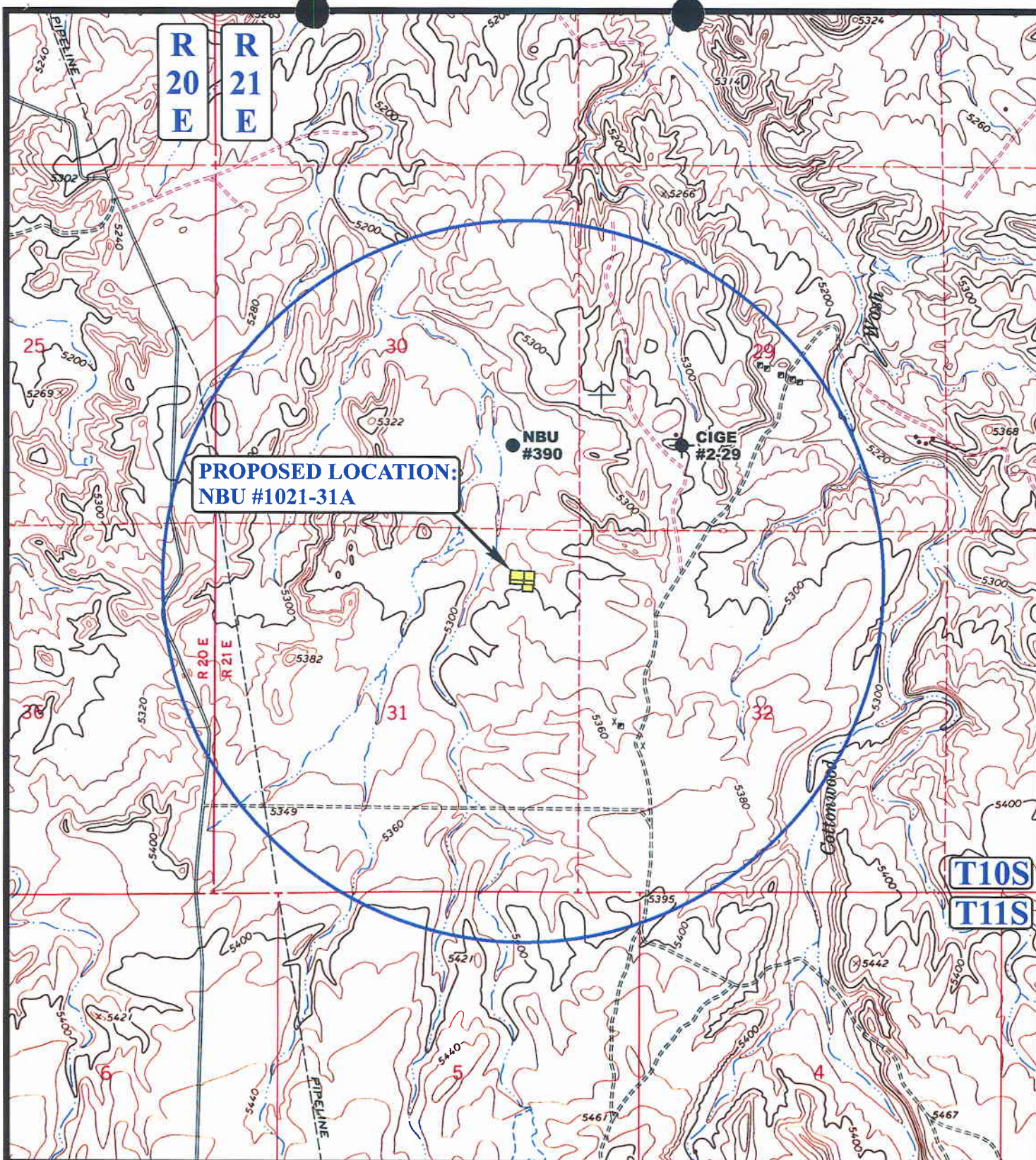


TOPOGRAPHIC
MAP

12 17 06
 MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: A.A. REVISED: 00-00-00





LEGEND:

Kerr-McGee Oil & Gas Onshore LP

NBU #1021-31A

SECTION 31, T10S, R21E, S.L.B.&M.

744' FNL 815' FEL



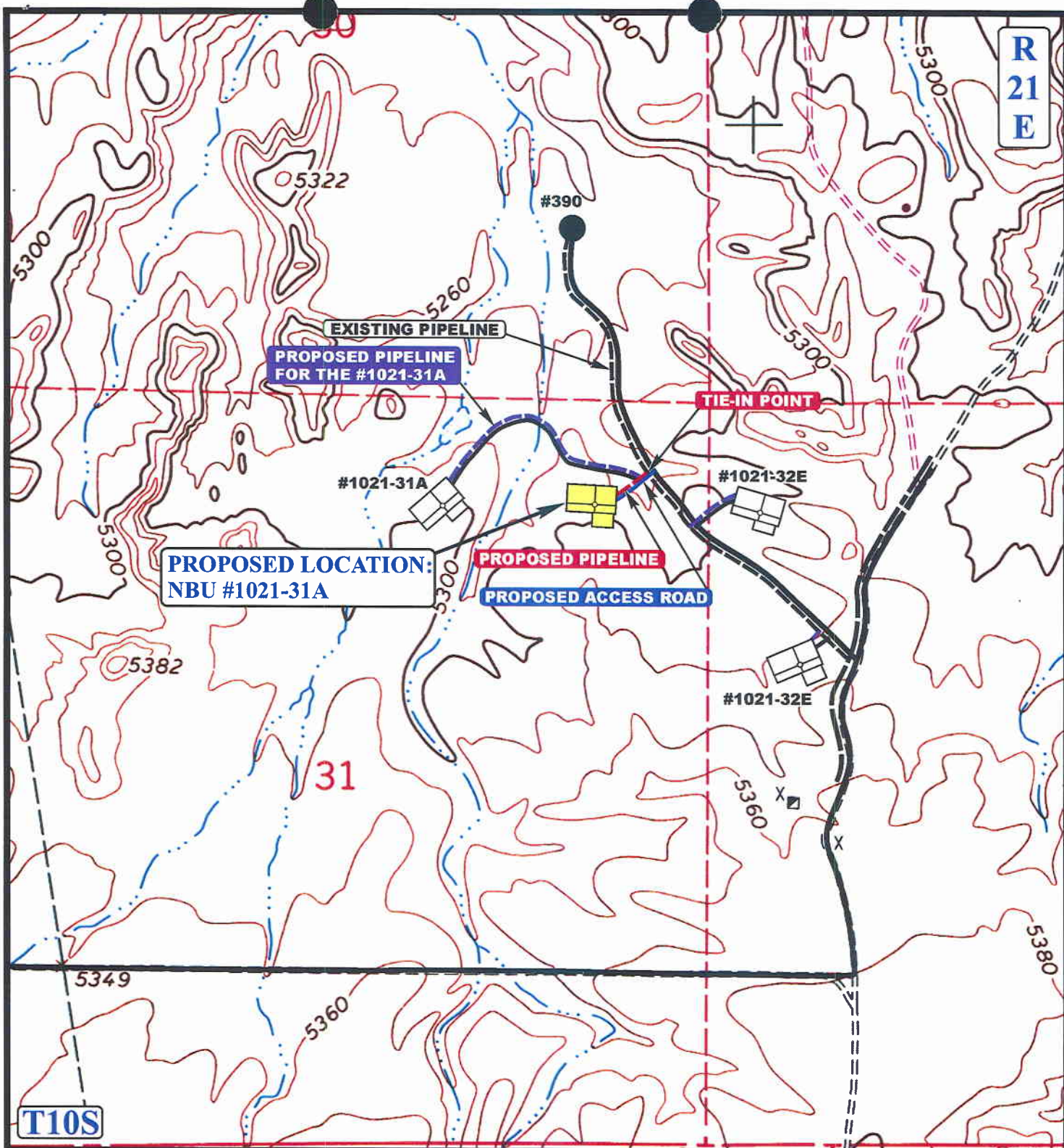
Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP

12 17 06
MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: A.A. REVISED: 00-00-00





APPROXIMATE TOTAL PIPELINE DISTANCE = 263' +/-

LEGEND:

- PROPOSED ACCESS ROAD
- EXISTING PIPELINE
- - - - - PROPOSED PIPELINE



Kerr-McGee Oil & Gas Onshore LP

NBU #1021-31A
SECTION 31, T10S, R21E, S.L.B.&M.
744' FNL 815' FEL



Uintah Engineering & Land Surveying
 85 South 200 East Vernal, Utah 84078
 (435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC
MAP

12 17 06
 MONTH DAY YEAR

SCALE: 1" = 1000' DRAWN BY: A.A. REVISED: 00-00-00



Kerr-McGee Oil and Gas Onshore LP

NBU #1021-31A

PIPELINE ALIGNMENT

LOCATED IN UINTAH COUNTY, UTAH

SECTION 31, T10S, R21E, S.L.B.&M.



PHOTO: VIEW FROM TIE-IN POINT

CAMERA ANGLE: WESTERLY



- Since 1964 -

UELS Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
435-789-1017 uels@uelsinc.com

PIPELINE PHOTOS

12 27 06
MONTH DAY YEAR

PHOTO

TAKEN BY: N.H.

DRAWN BY: A.A.

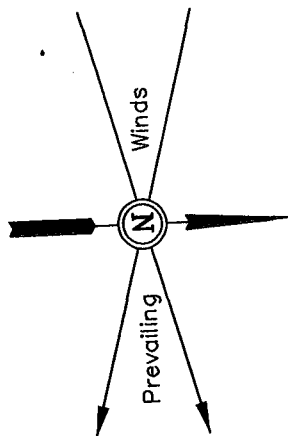
REVISED: 00-00-00

Kerr-McGee Oil & Gas Onshore LP

FIGURE #1

LOCATION LAYOUT FOR

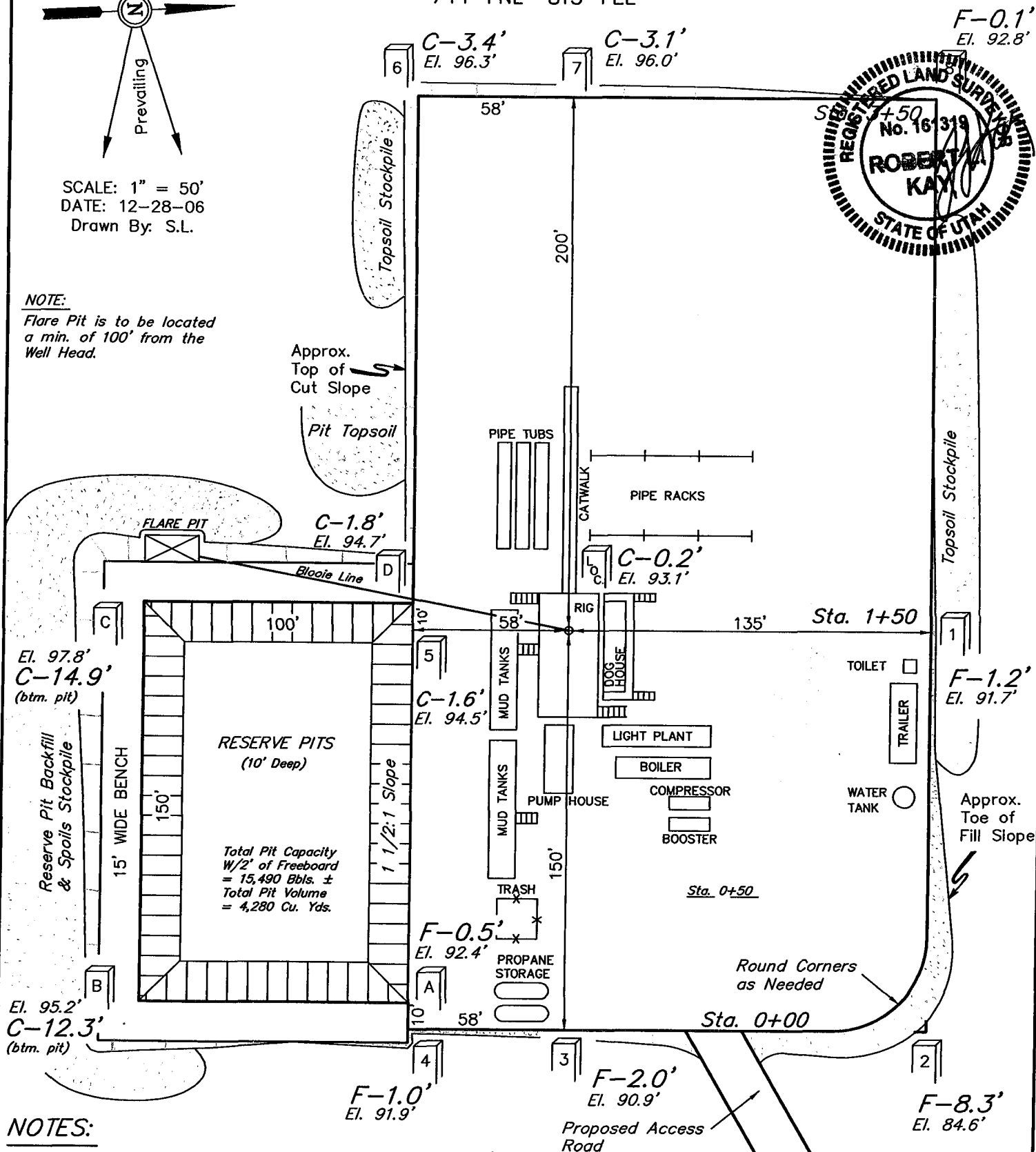
NBU #1021-31A
SECTION 31, T10S, R21E, S.L.B.&M.
744' FNL 815' FEL



SCALE: 1" = 50'
DATE: 12-28-06
Drawn By: S.L.

NOTE:

Flare Pit is to be located
a min. of 100' from the
Well Head.



NOTES:

Elev. Ungraded Ground At Loc. Stake = 5293.1'
FINISHED GRADE ELEV. AT LOC. STAKE = 5292.9'

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

Kerr-McGee Oil & Gas Onshore LP

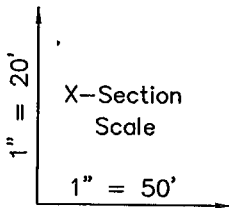
FIGURE #2

TYPICAL CROSS SECTIONS FOR

NBU #1021-31A

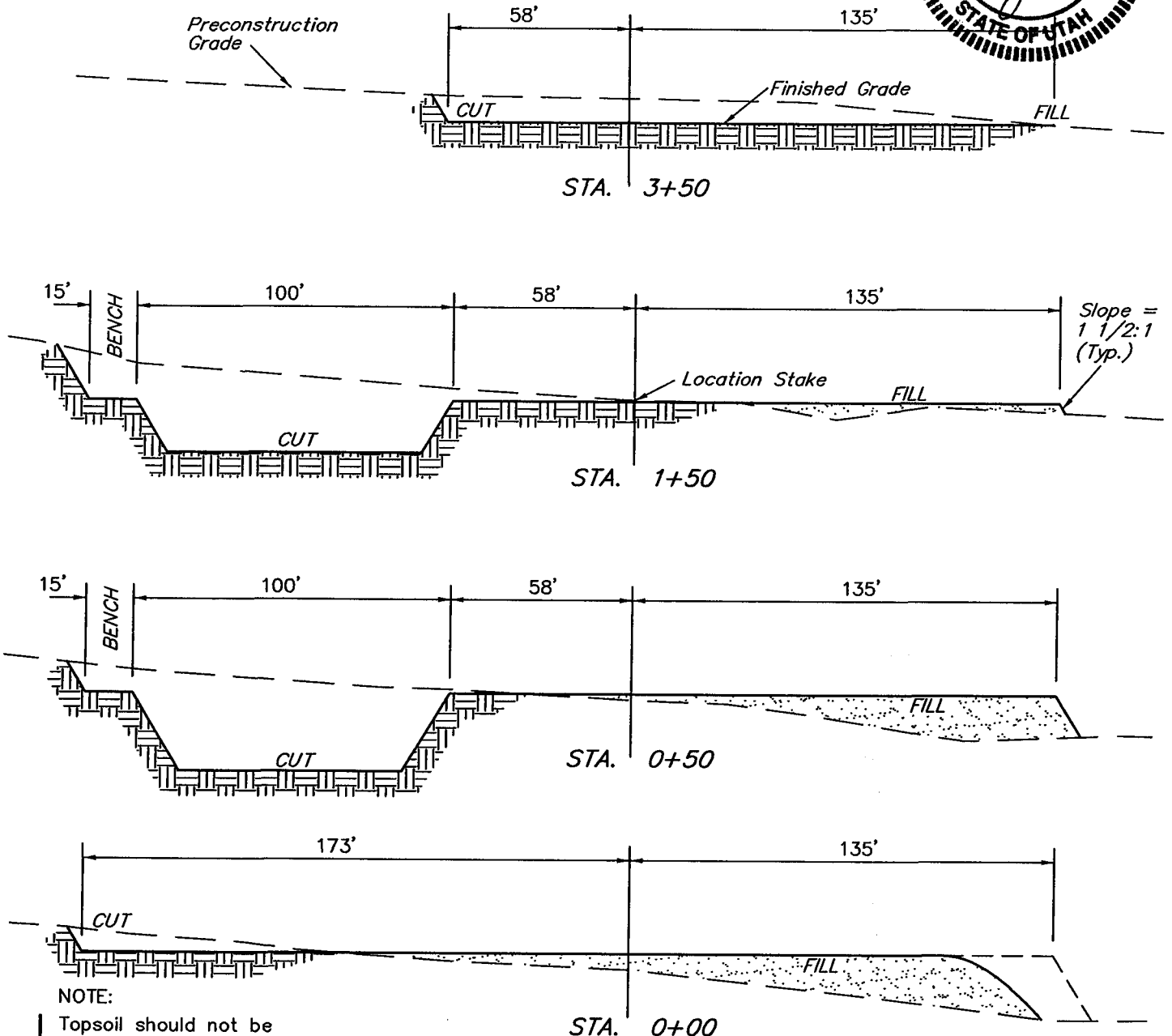
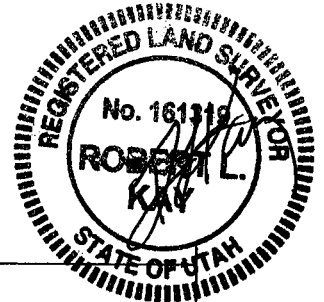
SECTION 31, T10S, R21E, S.L.B.&M.

744' FNL 815' FEL



DATE: 12-28-06

Drawn By: S.L.



NOTE:

Topsoil should not be Stripped Below Finished Grade on Substructure Area.

* NOTE:

FILL QUANTITY INCLUDES 5% FOR COMPACTION

APPROXIMATE YARDAGES

CUT

(6") Topsoil Stripping = 1,780 Cu. Yds.
Remaining Location = 7,340 Cu. Yds.

TOTAL CUT = 9,120 CU.YDS.

FILL = 3,110 CU.YDS.

EXCESS MATERIAL = 6,010 Cu. Yds.

Topsoil & Pit Backfill = 3,920 Cu. Yds.
(1/2 Pit Vol.)

EXCESS UNBALANCE = 2,090 Cu. Yds.
(After Interim Rehabilitation)

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 03/16/2007

API NO. ASSIGNED: 43-047-39111

WELL NAME: NBU 1021-31A

OPERATOR: KERR-MCGEE OIL & GAS (N2995)

CONTACT: SHEILA UPCHEGO

PHONE NUMBER: 435-781-7024

PROPOSED LOCATION:

NENE 31 100S 210E

SURFACE: 0744 FNL 0815 FEL

BOTTOM: 0744 FNL 0815 FEL

COUNTY: UINTAH

LATITUDE: 39.90935 LONGITUDE: -109.5873

UTM SURF EASTINGS: 620754 NORTHINGS: 4418441

FIELD NAME: NATURAL BUTTES (630)

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering	DLD	4/30/07
Geology		
Surface		

LEASE TYPE: 3 - State

LEASE NUMBER: ML-22794

SURFACE OWNER: 3 - State

PROPOSED FORMATION: WSMVD

COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

☒ Plat
☒ Bond: Fed[] Ind[] Sta[] Fee[]
(No. 22013542)
N Potash (Y/N)
☒ Oil Shale 190-5 (B) or 190-3 or 190-13
☒ Water Permit
(No. 43-8496)
N RDCC Review (Y/N)
(Date: _____)
N/A Fee Surf Agreement (Y/N)
N/A Intent to Commingle (Y/N)

LOCATION AND SITING:

____ R649-2-3.
Unit: NATURAL BUTTES
____ R649-3-2. General
Siting: 460 From Qtr/Qtr & 920' Between Wells
____ R649-3-3. Exception
☒ Drilling Unit
Board Cause No: 173-14
Eff Date: 12-2-94
Siting: 400' fr us drg & uncomm. Tracts
____ R649-3-11. Directional Drill

COMMENTS:

Needs Permit (04-05-07)

STIPULATIONS:

1- STATEMENT OF BASIS
2- OIL SHALE
3- Surface Csg Cont Stop

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator KERR-MCGEE OIL & GAS ONSHORE, LP
Well Name NBU 1021-31A
API Number 43-047-39111-0 **APD No** 311 **Field/Unit** UNDESIGNATED
Location: 1/4,1/4 NENE **Sec** 31 **Tw** 10S **Rng** 21E 744 FNL 815 FEL
GPS Coord (UTM) 620760 4418433 **Surface Owner**

Participants

Floyd Bartlett (DOGM), Jim Davis (SITLA), Carroll Estes and Tony Keznic (Kerr McGee) and David Kay (Uintah Engineering and Land Surveying)

Regional/Local Setting & Topography

The general area is within the Love area of Natural Buttes Unit in the upper Cottonwood Wash Drainage. The area is characterized by rolling hills and benches, which are frequently intersected by somewhat gentle draws, which flow into Cottonwood Wash. The draws are occasionally rimmed with steep side hills, which have exposed sand stone bedrock cliffs along the rims. Cottonwood Wash is an ephemeral drainage, which drains northerly approximately 11 miles to the White River. No seeps, springs or streams exist in the area. An occasional pond collecting runoff for livestock and antelope occurs.

This location is approximately 18 miles southeast of Ouray, Utah and is accessed by the Seep Ridge Road then by existing or planned oil field development roads to within 320 feet of the proposed site. New construction will be required from this point.

The proposed location is in a flat with little change in terrain. The flat has a slight slope to the north. It is located between side tributaries of Cottonwood Wash that is about 1.2 miles to the east. No drainage concerns exist

Both the surface and minerals are owned by SITLA.

Surface Use Plan

Current Surface Use

Grazing
Recreational
Wildlife Habitat

New Road

Miles	Well Pad	Src Const Material	Surface Formation
0.08	Width 308	Onsite	UNTA

Ancillary Facilities N

Waste Management Plan Adequate? Y

Environmental Parameters

Affected Floodplains and/or Wetland N

Flora / Fauna

Vegetation is a sparse desert shrub type. Spiny hopsage, horsebrush, curly mesquite, bud sage, halogeton, prickly pear, Gardner saltbrush, shadscale and spring annuals are present.

Antelope, cattle, rabbits, coyotes, and small mammals, birds and raptors.

Soil Type and Characteristics

Moderately deep sandy loam. Few surface rock.

Erosion Issues N**Sedimentation Issues** N**Site Stability Issues** N**Drainage Diversion Required** N**Berm Required?** N**Erosion Sedimentation Control Required?** N**Paleo Survey Run?** Y **Paleo Potential Observed?** N **Cultural Survey Run?** N **Cultural Resources?****Reserve Pit****Site-Specific Factors****Site Ranking**

Distance to Groundwater (feet)	>200	0
Distance to Surface Water (feet)	>1000	0
Dist. Nearest Municipal Well (ft)	>5280	0
Distance to Other Wells (feet)	300 to 1320	10
Native Soil Type	Mod permeability	10
Fluid Type	Fresh Water	5
Drill Cuttings	Normal Rock	0
Annual Precipitation (inches)	<10	0
Affected Populations	<10	0
Presence Nearby Utility Conduits	Not Present	0

Final Score 25 1 **Sensitivity Level****Characteristics / Requirements**

The proposed reserve pit is 100' x 150' x 10' deep located in a cut on the southeast corner of the location. A 20 mil liner with a felt sub-liner is planned by Kerr McGee.

Closed Loop Mud Required? N **Liner Required?** Y **Liner Thickness** 16 **Pit Underlayment Required?** Y**Other Observations / Comments**

Ben Williams representing the UDWR was not at the pre-site but stated the previous day that all the remaining locations in the area were classified as yearlong critical habitat for antelope. He stated that the lack of water not forage is the limiting factor affecting the herd in the area. He recommended no restrictions for antelope. No other wildlife is expected to be significantly affected. He gave Jim Davis of SITLA and Carroll Estes of Kerr McGee a copy of his wildlife evaluation and a UDWR recommended seed mix to be used when re-vegetating the locations.

ATV's were used to access the site.

Floyd Bartlett
Evaluator

4/5/2007
Date / Time

Casing Schematic

Surface

TOC @ 0.

BHP $0.052(9270)11.3 = 5447 \text{ psi}$
anticipate 5747 psi

Gas $.12(9270) = 1112$
 $5447 - 1112 = 4335 \text{ psi, MASP}$

BOPE SM ✓

9-5/8"
MW 8.3
Frac 19.3

Burst 2270

70% 1589 psi

Max P @ Surf. shoe

$.22(7370) = 1621$

$5447 - 1621 = 3826 \text{ psi}$

1900 psi = max allowed pressure @ Surf. shoe ✓

test to 1589 psi ✓

Ship surf. cont. ✓

✓ Adequate DWD 4/30/07

12 1/2"
18"

Unita

TOC @ 541.

to surf w/ 8% w/o
*Surf. stop ✓

1063' GR

1272' Birds Nest Water

1794' Mahogany

Surface
1900. MD

3800' ± BMSW

4198' Wasatch

7100' Mesaverde

8100' MV U2

8595' MV L1

4-1/2"
MW 11.3

Production
9270. MD

Well name:	2007-04 Kerr McGee NBU 1021-31A	
Operator:	Kerr McGee Oil & Gas Onshore L.P.	
String type:	Surface	Project ID: 43-047-39111
Location:	Uintah County, Utah	

Design parameters:
Collapse

Mud weight: 8.300 ppg
Design is based on evacuated pipe.

Minimum design factors:
Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 75 °F
Bottom hole temperature: 102 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,400 ft

Cement top: 541 ft

Burst

Max anticipated surface pressure: 1,672 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 1,900 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on buoyed weight.
Neutral point: 1,668 ft

Non-directional string.
Re subsequent strings:

Next setting depth: 9,270 ft
Next mud weight: 11.300 ppg
Next setting BHP: 5,442 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 1,900 ft
Injection pressure: 1,900 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	1900	9.625	32.30	H-40	ST&C	1900	1900	8.876	839.6

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	819	1370	1.672	1900	2270	1.19	54	254	4.71 J

Prepared Helen Sadik-Macdonald
by: Div of Oil, Gas & Minerals

Phone: (801) 538-5357
FAX: (801) 359-3940

Date: April 23, 2007
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 1900 ft, a mud weight of 8.3 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

Well name:	2007-04 Kerr McGee NBU 1021-31A	
Operator:	Kerr McGee Oil & Gas Onshore L.P.	
String type:	Production	Project ID: 43-047-39111
Location:	Uintah County, Utah	

Design parameters:
Collapse

Mud weight: 11.300 ppg
Design is based on evacuated pipe.

Minimum design factors:
Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 75 °F
Bottom hole temperature: 205 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,500 ft

Cement top: Surface

Burst

Max anticipated surface pressure: 3,402 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 5,442 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Non-directional string.

Tension is based on buoyed weight.
Neutral point: 7,704 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	9270	4.5	11.60	I-80	LT&C	9270	9270	3.875	809

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	5442	6360	1.169	5442	7780	1.43	89	212	2.37 J

Prepared Helen Sadik-Macdonald
by: Div of Oil, Gas & Minerals

Phone: (801) 538-5357
FAX: (801) 359-3940

Date: April 23, 2007
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 9270 ft, a mud weight of 11.3 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:
3160
(UT-922)

March 27, 2007

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2007 Plan of Development Natural Buttes Unit Uintah
County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2007 within the Natural Buttes Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION
(Proposed PZ Wasatch/MesaVerde)		
43-047-39107	NBU 1021-13N Sec 13 T10S R21E 0948 FSL 1602 FWL	
43-047-39108	NBU 1021-13H Sec 13 T10S R21E 2351 FNL 0515 FEL	
43-047-39109	NBU 1021-16D Sec 16 T10S R21E 0666 FNL 0666 FWL	
43-047-39106	NBU 1021-28I Sec 28 T10S R21E 2269 FSL 0930 FEL	
43-047-39100	NBU 1021-28F Sec 28 T10S R21E 1767 FNL 2157 FWL	
43-047-39101	NBU 1021-28E Sec 28 T10S R21E 2046 FNL 0856 FWL	
43-047-39102	NBU 1021-28D Sec 28 T10S R21E 0604 FNL 0614 FWL	
43-047-39103	NBU 1021-28C Sec 28 T10S R21E 0476 FNL 1997 FWL	
43-047-39104	NBU 1021-28B Sec 28 T10S R21E 0767 FNL 1997 FEL	
43-047-39110	NBU 1021-29P Sec 29 T10S R21E 0286 FSL 1236 FEL	
43-047-39111	NBU 1021-31A Sec 31 T10S R21E 0744 FNL 0815 FEL	
43-047-39116	NBU 1021-31B Sec 31 T10S R21E 0777 FNL 1911 FEL	
43-047-39136	NBU 1021-32G Sec 32 T10S R21E 2038 FNL 2065 FEL	
43-047-39137	NBU 1021-32D Sec 32 T10S R21E 0777 FNL 0355 FWL	
43-047-39138	NBU 1021-32E Sec 32 T10S R21E 1858 FNL 0651 FWL	
43-047-39139	NBU 1022-19P Sec 19 T10S R22E 0766 FSL 0298 FEL	
43-047-39141	NBU 1022-24J Sec 24 T10S R22E 1928 FSL 1972 FEL	
43-047-39140	NBU 1022-24P Sec 24 T10S R22E 1110 FSL 1054 FEL	
43-047-39142	NBU 1022-25G Sec 25 T10S R22E 1761 FNL 1462 FEL	
43-047-39033	NBU 1022-25H Sec 25 T10S R22E 2604 FNL 0825 FEL	
43-047-39156	NBU 1022-24O Sec 24 T10S R22E 0645 FSL 2007 FEL	
43-047-39157	NBU 1022-7I Sec 07 T10S R22E 2000 FSL 0948 FEL	

Page 2

Our records indicate the NBU 1021-28I and the NBU 1022-25H are closer than 460 feet from the Natural Buttes Unit boundary (approximately 390 and 36 feet respectively).

We have no objections to permitting the wells so long as the unit operator receives an exception to the locating and siting requirements of the State of Utah (R649-3-2).

/s/ Michael L. Coulthard

bcc: File – Natural Buttes Unit
Division of Oil Gas and Mining
Central Files
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:3-27-07

From: Ed Bonner
To: Mason, Diana
Date: 6/7/2007 4:43 PM
Subject: Well Clearance

CC: Davis, Jim; Garrison, LaVonne; Hill, Brad; Hunt, Gil

The following wells have been given cultural resources clearance by the Trust Lands Cultural Resources Group:

Enduring Resources, LLC

Coyote Basin 8-25-11-16 (API 43 047 39189)

EOG Resources, Inc

NBU 635-12E (API 43 047 39190)

NBU 636-12E (API 43 047 39191)

NBU 632-12E (API 43 047 39192)

NBU 633-12E (API 43 047 39193)

NBU 634-12E (API 43 047 39194)

Kerr McGee Oil & Gas Onshore LP

NBU 1022-25B (API 43 047 39032)

NBU 1022-25G (API 43 047 39142)

NBU 1021-31A (API 43 047 39111)

State 1021-31M (API 43 047 39112)

State 1021-31E (API 43 047 39113)

State 1021-31D (API 43 047 39114)

State 1021-31C (API 43 047 39115)

NBU 1021-31B (API 43 047 39116)

State 1021-31P (API 43 047 39117)

State 1021-31L (API 43 047 39118)

State 1021-31N (API 43 047 39119)

State 1021-31O (API 43 047 39120)

State 1021-31I (API 43 047 39121)

State 1021-31J (API 43 047 39122)

State 1021-31K (API 43 047 39123)

State 1021-31F (API 43 047 39124)

State 1021-31G (API 43 047 39125)

State 1021-31H (API 43 047 39126)

If you have any questions regarding this matter please give me a call.



JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil Gas and Mining

JOHN R. BAZA
Division Director

June 12, 2007

Kerr-McGee Oil & Gas Onshore, LP
1368 South 1200 East
Vernal, UT 84078

Re: State 1021-31A Well, 744' FNL, 815' FEL, NE NE, Sec. 31, T. 10 South, R. 21 East,
Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-39111.

Sincerely,

Gil Hunt
Associate Director

er
Enclosures

cc: Uintah County Assessor
Bureau of Land Management Vernal Office
SITLA

Operator: Kerr-McGee Oil & Gas Onshore, LP
Well Name & Number State 1021-31A
API Number: 43-047-39111
Lease: ML 22794

Location: NE NE Sec. 31 T. 10 South R. 21 East

Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

The operator is required to notify the Division of Oil, Gas and Mining of the following action during drilling of this well:

- 24 hours prior to cementing or testing casing – contact Dan Jarvis
- 24 hours prior to testing blowout prevention equipment – contact Dan Jarvis
- 24 hours prior to spudding the well – contact Carol Daniels
- Within 24 hours of any emergency changes made to the approved drilling program – contact Dustin Doucet
- Prior to commencing operations to plug and abandon the well – contact Dan Jarvis

The operator is required to get approval from the Division of Oil, Gas and Mining before performing any of the following actions during the drilling of this well:

- Plugging and abandonment or significant plug back of this well – contact Dustin Doucet
- Any changes to the approved drilling plan – contact Dustin Doucet

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voice mail message if the person is not available to take the call):

- Dan Jarvis at: (801) 538-5338 office (801) 942-0873 home
- Carol Daniels at: (801) 538-5284 office
- Dustin Doucet at: (801) 538-5281 office (801) 733-0983 home

3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. Compliance with the State of Utah Antiquities Act forbids disturbance of archeological, historical, or paleontological remains. Should archeological, historical or paleontological remains be encountered during your operations, you are required to immediately suspend all operations and immediately inform the Trust Lands Administration and the Division of State History of the discovery of such remains.
5. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)
6. In accordance with Order in Cause No. 190-5(b) dated October 28, 1982, the Operator shall comply with requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operator shall ensure that the surface and/or production casing is properly cemented over the entire oil shale interval as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the Division.
7. Surface casing shall be cemented to the surface.



JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil Gas and Mining

JOHN R. BAZA
Division Director

June 12, 2007

*Amended July 13, 2007

Kerr-McGee Oil & Gas Onshore, LP
1368 South 1200 East
Vernal, UT 84078

Re: *Natural Buttes Unit 1021-31A Well, 744' FNL, 815' FEL, NE NE, Sec. 31, T. 10 South, R. 21 East, Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann§40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-39111.

Sincerely,

Gil Hunt
Associate Director

er
Enclosures

cc: Uintah County Assessor
Bureau of Land Management Vernal Office
SITLA



Operator: Kerr-McGee Oil & Gas Onshore, LP
Well Name & Number Natural Buttes Unit 1021-31A
API Number: 43-047-39111
Lease: ML 22794

Location: NE NE **Sec.** 31 **T.** 10 South **R.** 21 East

Conditions of Approval

1. General

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2. Notification Requirements

The operator is required to notify the Division of Oil, Gas and Mining of the following action during drilling of this well:

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- Within 24 hours of any emergency changes made to the approved drilling program – contact Dustin Doucet
- Prior to commencing operations to plug and abandon the well – contact Dan Jarvis

The operator is required to get approval from the Division of Oil, Gas and Mining before performing any of the following actions during the drilling of this well:

- Plugging and abandonment or significant plug back of this well – contact Dustin Doucet
- Any changes to the approved drilling plan – contact Dustin Doucet

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7. Surface casing shall be cemented to the surface.

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company: KERR-McGEE OIL & GAS ONSHORE, LP

Well Name: NBU 1021-31A

Api No: 43-047-39111 Lease Type: STATE

Section 31 Township 10S Range 21E County UINTAH

Drilling Contractor PETE MARTIN DRLG RIG # RATHOLE

SPUDDED:

Date 10/10/07

Time 8:30 AM

How DRY

Drilling will Commence: _____

Reported by LOU WELDON

Telephone # (435) 828-7035

Date 10/12/07 Signed CHD

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator: KERR MCGEE OIL & GAS ONSHORE LP Operator Account Number: N 2995
Address: 1368 SOUTH 1200 EAST
city VERNAL
state UT zip 84078 Phone Number: (435) 781-7024

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304739111	NBU 1021-31A		NENE	31	10S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
<u>B</u>	99999	<u>2900</u>	10/10/2007			<u>10/17/07</u>	
Comments: <u>W5MVD</u> MIRU PETE MARTIN BUCKET RIG. SPUD WELL LOCATION ON 10/10/2007 AT 0830 HRS.							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
Comments:							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
Comments:							

ACTION CODES:

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

SHEILA UPCHEGO

Name (Please Print)

Signature

SENIOR LAND SPECIALIST

Title

10/11/2007

Date

RECEIVED

OCT 17 2007

DIV. OF OIL, GAS & MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: ML-22794
2. NAME OF OPERATOR: KERR MCGEE OIL AND GAS ONSHORE LP		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 1368 SOUTH 1200 EAST CITY VERNAL STATE UT ZIP 84078		7. UNIT or CA AGREEMENT NAME: UNIT #891008900A
4. LOCATION OF WELL FOOTAGES AT SURFACE: 744'FNL-815'FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENE 31 10S 21E		8. WELL NAME and NUMBER: NBU 1021-31A
		9. API NUMBER: 4304739111
		10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES
		COUNTY: UINTAH
		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: SET SURF CSG
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

MIRU BILL MARTIN AIR RIG ON 10/12/2007. DRILLED 12 1/4" SURFACE HOLE TO 1955. RAN 9 5/8 OF 45 JTS OF 36# J-55 SURFACE CSG. LEAD CMT W/160 SX HIFILL CLASS G @ 11.0 PPG 3.82 YLD. TAILED CMT W/200 SX PREM CLASS G @ 15.8 PPG 1.15 YLD. RAN 200' OF 1" PIPE. CMT W/125 PREM CLASS G @ 15.8 PPG 1.15 YLD. GOOD CMT TO SURFACE AND STAYED AT SURFACE. WORT.

NAME (PLEASE PRINT) SHEILA UPCHEGO	TITLE SENIOR LAND ADMIN SPECIALIST
SIGNATURE 	DATE 10/18/2007

(This space for State use only)

RECEIVED
OCT 24 2007

DIV. OF OIL, GAS & MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

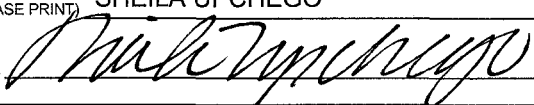
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: ML-22794
2. NAME OF OPERATOR: KERR-McGEE OIL & GAS ONSHORE LP		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 1368 SOUTH 1200 EAST CITY VERNAL STATE UT ZIP 84078		7. UNIT or CA AGREEMENT NAME: UNIT #891008900A
4. LOCATION OF WELL FOOTAGES AT SURFACE: 744'FNL-815'FEL		8. WELL NAME and NUMBER: NBU 1021-31A
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENE 31 10S 21E		9. API NUMBER: 4304739111
COUNTY: UINTAH		10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES
STATE: UTAH		

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TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: WELL SPUD
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

MIRU-PETE MARTIN BUCKET RIG. DRILL 20" CONDUCTOR HOLE TO 40'. RAN 14" 36.7# CONDUCTOR PIPE.
CMT W/28 SK READY MIX. SPUD WELL @ 0830 HRS ON 10/10/2007.

NAME (PLEASE PRINT) SHEILA UPCHEGO	TITLE SENIOR LAND ADMIN SPECIALIST
SIGNATURE 	DATE 10/11/2007

(This space for State use only)

RECEIVED

OCT 24 2007

(See Instructions on Reverse Side)

(5/2000)

DIV. OF OIL, GAS & MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL ☐ GAS WELL ☒ OTHER _____

2. NAME OF OPERATOR:
KERR MCGEE OIL & GAS ONSHORE LP

3. ADDRESS OF OPERATOR:
1368 SOUTH 1200 EAST CITY VERNAL STATE UT ZIP 84078

PHONE NUMBER:
(435) 781-7024

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 744'FNL, 815'FEL

COUNTY: UINTAH

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENE 31 10S 21E

STATE: UTAH

5. LEASE DESIGNATION AND SERIAL NUMBER:
ML-22794

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:
UNIT #891008900A

8. WELL NAME and NUMBER:
NBU 1021-31A

9. API NUMBER:
4304739111

10. FIELD AND POOL, OR WILDCAT:
NATURAL BUTTES

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: FINAL DRILLING OPERATIONS
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

FINISHED DRILLING FROM 1955' TO 9100' ON 11/12/2007. RAN 4 1/2" 11.6# I-80 PRODUCTION CSG. LEAD CMT W/340 SX PREM LITE II @11.2 PPG 3.13 YIELD. TAILED CMT W/1275 SX 50/50 POZ @14.3 PPG 1.31 YIELD. DROP PLUG & DISPLACE W/140 BBLS CLAY TREAT WATER BUMPED PLUG @3200 PSI (500 OVER CIRC PSI) FLOATS HELD W/1.5 BBLS BACK TO TRUCK FULL RETURNS DURING CMT JOB W/25 BBLS CMT TO PIT. LAND CSG. SET MANDREL TO 5000 PSI N/D STACK CLEAN MUD TANKS.

RELEASED ENSIGN RIG 83 ON 11/13/2007 AT 1230 HRS.

NAME (PLEASE PRINT) SHEILA UPCHEGO

TITLE SENIOR LAND ADMIN SPECIALIST

SIGNATURE

DATE 11/14/2007

(This space for State use only)

RECEIVED

NOV 20 2007

DIV. OF OIL, GAS & MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

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1. TYPE OF WELL OIL WELL ☐ GAS WELL ☒ OTHER _____

2. NAME OF OPERATOR:
KERR McGEE OIL & GAS ONSHORE LP

3. ADDRESS OF OPERATOR:
1368 SOUTH 1200 EAST CITY VERNAL STATE UT ZIP 84078

PHONE NUMBER:
(435) 781-7024

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 744'FNL, 815'FEL

COUNTY: UINTAH

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENE 31 10S 21E

STATE: UTAH

5. LEASE DESIGNATION AND SERIAL NUMBER:
ML-22794

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:
UNIT #891008900A

8. WELL NAME and NUMBER:
NBU 1021-31A

9. API NUMBER:
4304739111

10. FIELD AND POOL, OR WILDCAT:
NATURAL BUTTES

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
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	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>PRODUCTION</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<u>START-UP</u>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

THE SUBJECT WELL LOCATION WAS PLACED ON PRODUCTION ON 02/07/2008 AT 11:00 AM.

PLEASE REFER TO THE ATTACHED CHRONOLOGICAL WELL HISTORY.

RECEIVED
FEB 25 2008
DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) SHEILA UPCHEGO

TITLE SENIOR LAND ADMIN SPECIALIST

SIGNATURE

DATE 2/12/2008

(This space for State use only)



Anadarko Petroleum Corporation
1368 S. 1200 East
Vernal, UT 84078

CHRONOLOGICAL WELL HISTORY

NBU 1021-31A

LOCATION NENE SEC.10, T10S, R21E
UINTAH COUNTY, UT

DATE	ACTIVITY	STATUS
09/21/07	LOCATION STARTED ENSIGN 83	
10/08/07	LOCATION COMPLETED ENSIGN 83	P/L IN, WOBR
10/09/07	SET CONDUCTOR ENSIGN 83	WOAR
10/12/07	SET AIR RIG ENSIGN 83	DRILLING
10/18/07	9-5/8" @1916' ENSING 83	WORT
11/05/07	TD: 4520' Csg. 9 5/8" @ 2131' MW: 9.3 Move to NBU 1021-31A. RURT. NU and test BOPE. PUDS and drill FE. Rotary spud @ 1930 hrs 11/3/07. Drill from 1955'-4520'. DA.	SD: 11/3/07 DSS: 2
11/06/07	TD: 5724' Csg. 9 5/8" @ 2131' MW: 9.7 Drill from 4520'-5724'. DA.	SD: 11/3/07 DSS: 3
11/07/07	TD: 6515' Csg. 9 5/8" @ 2131' MW: 10.5 Drill from 5724'-6515'. DA @ report time.	SD: 11/3/07 DSS: 4
11/08/07	TD: 6988' Csg. 9 5/8" @ 2131' MW: 10.9 Drill from 6515'-6988'. TFNB @ report time.	SD: 11/3/07 DSS: 5
11/09/07	TD: 7586' Csg. 9 5/8" @ 2131' MW: 11.2 Finish bit trip. Drill from 6988'-7586'. DA @ report time.	SD: 11/3/07 DSS: 6
11/12/07	TD: 9100' Csg. 9 5/8" @ 2131' MW: 11.7 Drill f/ 7586'-8496'. TFNB. Drill to 9100'. CCH and short trip @ report time.	SD: 11/3/07 DSS: 9
11/13/07	TD: 9100' Csg. 9 5/8" @ 2131' MW: 11.7 Short trip, CCH, and LDDS. Run logs and bridged out at 5605'. RU and run 4.5" prod csg. CCH and prep to cement @ report time.	SD: 11/3/07 DSS: 10
11/14/07	TD: 9100' Csg. 9 5/8" @ 2131' MW: 11.7 Cement 4 1/2" production casing. Land casing and release rig @ 1230 hrs 11/13/07. RDRT.	SD: 11/3/07 DSS: 11
02/01/08	MIRU Days On Completion: 1 Remarks: 7 AM: MOVE TO LOC. RU RIG. SPOT EQUIPMENT. ND WH, NU BOP. PU 3 7/8" MILL. RIH PU 2 3/8" J55 TBG (288 JTS). TAG PBTD @ 9039'. BROKE CIRC & CIRC WELL CLEAN. POOH L/D 10 JTS. EOT @ 8743'. SWI, SDFN.	
02/02/08	PREP TO FRAC	

Days On Completion: 2

Remarks: 7 AM: HSM. OPEN WELL. POOH W/ TBG & MILL. ND BOP, NU FRAC VALVES. FILL WELL. PRES TEST TO 7500 PSI (HELD). BLEED PRESS. SWI, SDFN. READY FOR FRAC ON 2/4/08.

02/04/08

PERF AND FRAC

Days On Completion: 4

Remarks: DAY #3] 7:00 MIRU CUTTERS WIRE LINE & WEATHERFORD FRAC EQUIP.

STG #1] P/U RIH W/ 3-3/8 EXP GUN, 23 GRM, 0.36". PERF MESAVERDE 8970'-8976' 4 SPF, 24 HOLES, 8876'-8880' 4 SPF, 16 HOLES [40 HOLES] WHP=0#, BRK DN PERFS W/ 4520#, INJT PSI=5450, INJT RT=51.5, ISIP=4520#, FG=.81, PUMP'D 1005.2 BBLS SLK/WTR W/ 23359# 30/50 MESH W/ 5000# RESIN COAT IN TAIL, ISIP=3016#, FG=.78, AR=51.5, AP=5102, MR=51.7, MP=7129, NPI=-245, 24/40 PERFS OPEN 60%

STG #2] P/U RIH W/ 3-3/8 EXP GUN, 23 GRM, 0.36" & BKR 8K CBP. SET CBP @ 8835'. PERF MESAVERDE 8800'-8805' 4 SPF, 20 HOLES, 8746'-8749' 3 SPF, 9 HOLES, 8662'-8665' 4 SPF 12 HOLES [41 HOLES] WHP=0#, BRK DN PERFS W/ 7275#, INJT PSI=5300, INJT RT=50, ISIP=3120#, FG=.80, PUMP'D 2239 BBLS SLK/WTR W/ 75358# 30/50 MESH W/ 5000# RESIN COAT IN TAIL, ISIP=3192#, FG=.81, AR=50.6, AP=4949, MR=51, MP=7290, NPI=72, 24/41 PERFS OPEN 60%

STG #3] P/U RIH W/ 3-3/8 EXP GUN, 23 GRM, 0.36" & BKR 8K CBP. SET CBP @ 8600'. PERF MESAVERDE 8560'-8570' 3 SPF, 30 HOLES, 8438'-8442' 3 SPF, 12 HOLES, [42 HOLES] WHP=0#, BRK DN PERFS W/ 5800#, INJT PSI=5550, INJT RT=50.6, ISIP=3528#, FG=.86, PUMP'D 2974.1 BBLS SLK/WTR W/ 105531# 30/50 MESH W/ 5000# RESIN COAT IN TAIL, ISIP=2906#, FG=.78, AR=50.1, AP=5104, MR=50.2, MP=7254, NPI=-621, 38/42 PERFS OPEN 88%

STG #4] P/U RIH W/ 3-3/8 EXP GUN, 23 GRM, 0.36" & BKR 8K CBP. SET CBP @ 8345'. PERF MESAVERDE 8305'-8315' 4 SPF, 40 HOLES, [40 HOLES] WHP=0#, BRK DN PERFS W/ 6574#, INJT PSI=4530, INJT RT=50.6, ISIP=3151#, FG=.82, PUMP'D 655.8 BBLS SLK/WTR W/ 18545# 30/50 MESH W/ 5000# RESIN COAT IN TAIL, ISIP=3002#, FG=.80, AR=50.2, AP=4769, MR=50.4, MP=6771, NPI=-149, 29/40 PERFS OPEN 72%

STG #5] P/U RIH W/ 3-3/8 EXP GUN, 23 GRM, 0.36" & BKR 8K CBP. SET CBP @ 7788'. PERF MESAVERDE 7756'-7758' 4 SPF, 8 HOLES, 7700'-7708' 4 SPF 32 HOLES [40 HOLES] WHP=0#, BRK DN PERFS W/ 6136#, INJT PSI=5000, INJT RT=50.1, ISIP=2178#, FG=.72, PUMP'D 1877.4 BBLS SLK/WTR W/ 71480# 30/50 MESH W/ 5000# RESIN COAT IN TAIL, ISIP=3255#, FG=.86, AR=50.1, AP=4559, MR=50.2, MP=6136, NPI=1077, 24/40 PERFS OPEN 60%

TOP KILL] P/U RIH W/ BKR 8K CBP. SET CBP @ 7650', POOH, R/D WIRE LINE & WEATHERFORD FRAC EQUIP, SWIFN 6:00

02/05/08

DRILL CBP'S

Days On Completion: 5

Remarks: DAY #4] HSM, P/U PWR SWVL

OPEN WELL, 0#, N/D FRAC VALVES, N/U BOPS, R/U TBG EQUIP, RIH W/ 244 JNT 2-3/8 J-55 TBG TAG KILL PLUG @ 7650' PLUG #1] P/U PWR SWVL, EST CIRC, DRL THROUGH BKR 8K CBP @ 7650' IN 1 HR, 1200# INCREASE, CONTINUE TO RIH. PLUG #2] TAG SAND @ 7758' [30' FILL] C/O & DRL THROUGH BKR 8K CBP @ 7788' IN 15 MIN. 950# INCREASE, CONTINUE TO RIH PLUG #3] TAG SAND @ 8315' [30' FILL] C/O & DRL THROUGH BKR 8K CBP @ 8345' IN 15 MIN. 400# INCREASE, CONTINUE TO RIH PLUG #4] TAG SAND @ 8570' [30' FILL] C/O & DRL THROUGH BKR 8K CBP @ 8600' IN 12 MIN. 400# INCREASE, CONTINUE TO RIH PLUG #5] TAG SAND @ 8800' [30' FILL] C/O & DRL THROUGH BKR 8K

CBP @ 8830' IN 15 MIN. 300# INCREASE, CONTINUE TO RIH, TAG SAND @ 8981' C/O TO
PBTD @ 9032' CIRC HOLE FOR 20 MIN. RIG DN PWR SWVL, L/D 20 JNTS ON FLOAT,

TBG DETAIL

K.B	17.00
HANGER 4-1/16	.83
267 JNTS 2-3/8 J-55	8384.61
PROFILE NIPPLE ["X" NIPPLE 1.875]	2.20
EOT @	8404.64

293 JNTS BROUGHT TO LOC
267 JNTS USED IN WELL
26 JNTS SENT BACK

02/07/08 **FLOWBACK REPORT:** CP 2100#, TP 900#, CK 20/64", 31 BWPH, LOAD REC'D 803 BBLS,
REMAINING LTR 3528 BBLS

WENT ON SALES: @ 11:00 AM, 30 MCF, 1000 TBG, 1300 CSG, 20/64 CK, 1008 BBWH

02/08/08 **FLOWBACK REPORT:** CP 1650#, TP 725#, CK 20/64", 16 BWPH, LOAD REC'D 461 BBLS,
REMAINING LTR 4867 BBLS

ON SALES: 376 MCF, 0 BC, 744 BW, TP: 900#, CP: 2100#, 20/64 CHK, 15 HRS, LP: 183#.

02/09/08 **FLOWBACK REPORT:** CP 1650#, TP 600#, CK 20/64", 12 BWPH, LOAD REC'D 298 BBLS,
REMAINING LTR 4569 BBLS

ON SALES: 879 MCF, 0 BC, 432 BW, TP: 725#, CP: 1650#, 20/64 CHK, 24 HRS, LP: 222#.

02/10/08 **ON SALES:** 840 MCF, 0 BC, 288 BW, TP: 600#, CP: 1650#, 20/64 CHK, 24 HRS, LP: 235#.

02/11/08 **ON SALES:** 739 MCF, 0 BC, 288 BW, TP: 593#, CP: 1206#, 20/64 CHK, 24 HRS, LP: 208#.

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT ☐ FORM 8
(highlight changes)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: ML-22794
b. TYPE OF WORK: NEW WELL <input checked="" type="checkbox"/> HORIZ. LATS. <input type="checkbox"/> DEEP-EN <input type="checkbox"/> RE-ENTRY <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER _____		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
2. NAME OF OPERATOR: KERR McGEE OIL & GAS ONSHORE LP		7. UNIT or CA AGREEMENT NAME UNIT #891008900A
3. ADDRESS OF OPERATOR: 1368 S 1200 E CITY VERNAL STATE UT ZIP 84078		8. WELL NAME and NUMBER: NBU 1021-31A
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 744'FNL, 815'FEL AT TOP PRODUCING INTERVAL REPORTED BELOW: AT TOTAL DEPTH:		9. API NUMBER: 4304739111
10. FIELD AND POOL, OR WILDCAT NATURAL BUTTES		11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENE 31 10S 21E
12. COUNTY UINTAH		13. STATE UTAH

14. DATE SPURRED: 10/10/2007	15. DATE T.D. REACHED: 11/12/2007	16. DATE COMPLETED: 2/7/2008	ABANDONED <input type="checkbox"/> READY TO PRODUCE <input checked="" type="checkbox"/>	17. ELEVATIONS (DF, RKB, RT, GL): 5293'GL
18. TOTAL DEPTH: MD 9,100 TVD	19. PLUG BACK T.D.: MD 9,032 TVD	20. IF MULTIPLE COMPLETIONS, HOW MANY? *		21. DEPTH BRIDGE MD PLUG SET: TVD
22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each) CBL-CCL-GR/50/DN/ARRAY COMP TAVE RES ASL			23. WAS WELL CORED? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit analysis) WAS DST RUN? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit report) DIRECTIONAL SURVEY? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit copy)	

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
20"	14" STL	36.7#		40		28			
12 1/4"	9 5/8 J-55	36#		1,955		485			
7 7/8"	4 1/2 I-80	11.6#		9,100		1615			

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	8,404							

26. PRODUCING INTERVALS WSMVD - Run Unit PA					27. PERFORATION RECORD				
FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS	
(A) MESAVERDE	7,700	8,976			7,700 8,976	0.36	203	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>	
(B)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>	
(C)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>	
(D)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>	

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
7700'-8976'	PMP 8751 BBLS SLICK H2O & 294,273# 30/50 SD

MAR 03 2008
DIV. OF OIL, GAS & MINING

29. ENCLOSED ATTACHMENTS: <input type="checkbox"/> ELECTRICAL/MECHANICAL LOGS <input type="checkbox"/> SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION	<input type="checkbox"/> GEOLOGIC REPORT <input type="checkbox"/> CORE ANALYSIS	<input type="checkbox"/> DST REPORT <input type="checkbox"/> OTHER: _____	30. WELL STATUS: PROD
---	--	--	------------------------------

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 2/7/2008		TEST DATE: 2/9/2008		HOURS TESTED: 24		TEST PRODUCTION RATES: →	OIL – BBL: 0	GAS – MCF: 879	WATER – BBL: 432	PROD. METHOD: FLOWING
CHOKE SIZE: 20/64	TBG. PRESS. 725	CSG. PRESS. 1,650	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL: 0	GAS – MCF: 879	WATER – BBL: 432	INTERVAL STATUS: PROD

INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

SOLD

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof. Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
WASATCH MESAVERDE	4,185 7,024	7,024			

35. ADDITIONAL REMARKS (Include plugging procedure)

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) SHEILA UPCHEGO

TITLE SENIOR LAND ADMIN SPECIALIST

SIGNATURE

DATE 2/25/2008

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top -- Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: ML-22794
2. NAME OF OPERATOR: KERR MCGEE OIL & GAS ONSHORE LP		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 1368 SOUTH 1200 EAST CITY VERNAL STATE UT ZIP 84078		7. UNIT or CA AGREEMENT NAME: UNIT#891008900A
4. LOCATION OF WELL FOOTAGES AT SURFACE: 744' FNL, 815' FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENE 31 10S 21E		8. WELL NAME and NUMBER: NBU 1021-31A
PHONE NUMBER: (435) 781-7024		9. API NUMBER: 4304739111
		10. FIELD AND POOL, OR WILDCAT:
		COUNTY: UINTAH
		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input checked="" type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

THE OPERATOR REQUESTS AUTHORIZATION TO RECOMPLETE THE SUBJECT WELL LOCATION. THE OPERATOR PROPOSES TO COMPLETE THE WASATCH FORMATION, AND COMMINGLE THE NEWLY WASATCH FORMATION ALONG WITH THE EXISTING FORMATION.

PLEASE REFER TO THE ATTACHED RECOMPLETION PROCEDURE.

COPY SENT TO OPERATOR

Date: 10.23.2008

Initials: KS

NAME (PLEASE PRINT) SHEILA UPCHEGO	TITLE REGULATORY ANALYST
SIGNATURE <i>Sheila Upchego</i>	DATE 10/14/2008

(This space for State use only)

(5/2000)

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 10/21/08
BY: [Signature]
Cause 173-14

(See Instructions on Reverse Side)

RECEIVED

OCT 21 2008

DIV. OF OIL, GAS & MINING

Name: NBU 1021-31A
Location: NE NE Sec 31 T10S R21E
Uintah County, UT
Date: 10/09/2008

ELEVATIONS: 5293 GL 5310 KB

TOTAL DEPTH: 9100 **PBTD:** 9053
SURFACE CASING: 9 5/8", 36# J-55 ST&C @ 1934'
PRODUCTION CASING: 4 1/2", 11.6#, I-80 LT&C @ 9098'
 Marker Joint 4181-4202'

TUBULAR PROPERTIES:

	BURST (psi)	COLLAPSE (psi)	DRIFT DIA. (in.)	CAPACITIES	
				(bbl/ft)	(gal/ft)
2 3/8" 4.7# J-55 tbg	7,700	8,100	1.901"	0.00387	0.1624
4 1/2" 11.6# I-80 (See above)	7780	6350	3.875"	0.0155	0.6528
2 3/8" by 4 1/2" Annulus				0.0101	0.4227
2 7/8" 6.5# N-80 tbg	10570	11160	2.347	0.005794	0.2433

TOPS:

1021' Green River
 1566' Mahogany
 4185' Wasatch
 7024' Mesaverde
 Estimated T.O.C. from CBL @1800

GENERAL:

- There will need to be two gun runs for stages 7 and 8
- A minimum of 14 tanks (cleaned lined 500 bbl) of **FRESH** water will be required. Note: Use biocide in tanks and the water needs to be at least 65-75°F at pump time.
- All perforation depths are from Halliburtons Induction-Density-Neutron log dated 11/12/2007
- 13 fracturing stages required for coverage.
- Procedure calls for 14 CBP's (8000 psi) and 1 retrievable packer (10,000 psi)
- Calculate open perforations after each breakdown. If less than 60% of the perforations appear to be open, ball out with 15% HCl.
- Put scale inhibitor 3 gals/1000 gals (in pad and 1/2 the ramp) and 10 gals/1000 gals in all flushes except the final stage. Remember to pre-load the casing with scale inhibitor for the very first stage with 10 gpt.
- 20/40 mesh Ottawa sand, 25# Gel Frac

- Maximum surface pressure **6200 psi**.
- Flush volumes are the sum of slick water and acid used during displacement (include scale inhibitor as mentioned above). **DO NOT OVERDISPLACE**. Stage acid and scale inhibitor if necessary to cover the next perforated interval.
- Service companies need to provide surface/production annulus pop-offs to be set for 1500 psi for each frac.
- Pump **resin coated sand** last 5,000# of all frac stages
- Tubing currently landed at ~8404'

Existing Perforations:

MESAVERDE	8876	8880	4	16
MESAVERDE	8970	8976	4	24
MESAVERDE	8662	8665	4	12
MESAVERDE	8746	8749	3	9
MESAVERDE	8800	8805	4	20
MESAVERDE	8438	8442	3	12
MESAVERDE	8560	8570	3	30
MESAVERDE	8305	8315	4	40
MESAVERDE	7700	7708	4	32
MESAVERDE	7756	7758	4	8

PROCEDURE:

1. MIRU. Control well with recycled water and biocide as required. ND WH, NU BOP's and test.
2. TOOH with 2-3/8", 4.7#, J-55 (or N-80) tubing (currently landed at ~8404'). Visually inspect for scale and consider replacing if needed.
3. If tbg looks ok consider running a gauge ring to 8230 (50' below proposed CBP). Otherwise P/U a mill and C/O to 8230 (50' below proposed CBP).
4. Set 8000 psi CBP at ~ 8156'.
5. PU 10,000 psi packer and TIH w/ 2 7/8" tbg and set packer at 7780' Existing perfs at 7756-7758'. Test tubing, packer & casing to 6200 psi..
6. Perf the following with 1 9/16" gun

Zone	From	To	spf	# of shots
MESAVERDE	8116	8126	4	40
7. POOH w/ WL. Pump 250 gal 15% HCL to perfs followed by gel. SD. Let acid soak for 5-10 min. Breakdown perfs and establish injection rate (include scale inhibitor in fluid). Fracture as outlined in Stage 1 on attached listing. FOLLOW FLUSH/SANDPLUG

CALCULATION AT TOP OF PAGE 11 Note: **The flush should be pumped as normal. Wait on sand to fall and verify top of sand with a dump bailer.** Dump Bail 10 ft of cement on top of sand plug. This should take 3 runs. Let set over night.

8. Control well as needed with 2% KCL and biocide. TOOH with 2 7/8" workstring and packer and laydown. RIH with 4 1/2" 8000 psi CBP and set at ~7468'. Test casing and BOPE to 6200 psi.

9. Perf the following 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
MESAVERDE	7380	7382	4	8
MESAVERDE	7408	7414	4	24
MESAVERDE	7436	7438	4	8

10. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 2 on attached listing. Under-displace to ~7366' and trickle 250gal 15%HCL w/ scale inhibitor in flush.
NOTE TIGHT SPACING

11. Set 8000 psi CBP at ~7356'. Perf the following 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
MESAVERDE	7282	7284	4	8
MESAVERDE	7311	7313	4	8
MESAVERDE	7322	7326	4	16

12. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 3 on attached listing. Under-displace to ~7232' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

13. Set 8000 psi CBP at ~7112'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	6930	6932	4	8
WASATCH	6976	6978	4	8
WASATCH	7010	7012	4	8
WASATCH	7032	7034	4	8
WASATCH	7078	7082	4	16

14. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 4 on attached listing. Under-displace to ~6902' trickle 250gal 15%HCL w/ scale inhibitor in flush.
NOTE TIGHT SPACING

15. Set 8000 psi CBP at ~6892'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	6764	6766	4	8
WASATCH	6770	6772	4	8
WASATCH	6810	6812	4	8
WASATCH	6830	6832	4	8
WASATCH	6858	6862	4	16

16. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 5 on attached listing. Under-displace to ~6714' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

17. Set 8000 psi CBP at ~6628'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	6442	6444	4	8
WASATCH	6476	6478	4	8
WASATCH	6534	6538	4	16
WASATCH	6574	6576	4	8
WASATCH	6596	6598	4	8

18. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 6 on attached listing. Under-displace to ~6425' and trickle 250gal 15%HCL w/ scale inhibitor in flush.
NOTE TIGHT SPACING

19. Set 8000 psi CBP at ~6415'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole: **Note: 2 gun runs**

Zone	From	To	spf	# of shots
WASATCH	6228	6230	4	8
WASATCH	6252	6254	4	8
WASATCH	6274	6276	4	8
WASATCH	6289	6291	4	8
WASATCH	6315	6317	4	8
WASATCH	6344	6345	4	4
WASATCH	6382	6385	4	12

20. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 7 on attached listing. Under-displace to ~6178' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

21. Set 8000 psi CBP at ~6014'. Perf the following 3-3/8" gun, 23 gm, 0.36" hole: **Note: 2 gun runs**

Zone	From	To	spf	# of shots
WASATCH	5862	5864	4	8
WASATCH	5870	5871	4	4
WASATCH	5875	5876	4	4
WASATCH	5917	5919	4	8
WASATCH	5931	5933	4	8
WASATCH	5940	5942	4	8
WASATCH	5982	5984	4	8

22. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 8 on attached listing. Under-displace to ~5826' and trickle 250gal 15%HCL w/ scale inhibitor in flush.
NOTE TIGHT SPACING

23. Set 8000 psi CBP at ~5816'. Perf the following with 3-3/8" gun, 23 gm, 0.36"hole:

Zone	From	To	spf	# of shots
WASATCH	5698	5700	4	8
WASATCH	5722	5724	4	8
WASATCH	5784	5786	4	8

24. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 9 on attached listing. Under-displace to ~5648' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

25. Set 8000 psi CBP at ~5606'. Perf the following with 3-3/8" gun, 23 gm, 0.36"hole:

Zone	From	To	spf	# of shots
WASATCH	5459	5461	4	8
WASATCH	5526	5528	4	8
WASATCH	5573	5576	4	12

26. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 10 on attached listing. Under-displace to ~5409' and trickle 250gal 15%HCL w/ scale inhibitor in flush
.NOTE TIGHT SPACING

27. Set 8000 psi CBP at~5372'. . Perf the following with 3-3/8" gun, 23 gm, 0.36"hole:

Zone	From	To	spf	# of shots
WASATCH	5220	5222	4	8
WASATCH	5247	5249	4	8
WASATCH	5270	5273	4	12
WASATCH	5312	5314	4	8
WASATCH	5340	5342	4	8

28. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 11 on attached listing. Under-displace to ~5170' and trickle 250gal 15%HCL w/ scale inhibitor in flush

29. Set 8000 psi CBP at~5088'. . Perf the following with 3-3/8" gun, 23 gm, 0.36"hole:

Zone	From	To	spf	# of shots
WASATCH	5009	5012	4	12
WASATCH	5048	5050	4	8
WASATCH	5054	5058	4	16

30. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 12 on attached listing. Under-displace to ~4959' and trickle 250gal 15%HCL w/ scale inhibitor in flush
.NOTE TIGHT SPACING

31. Set 8000 psi CBP at~4934'. . Perf the following with 3-3/8" gun, 23 gm, 0.36"hole:

Zone	From	To	spf	# of shots
WASATCH	4870	4872	4	8
WASATCH	4878	4880	4	8
WASATCH	4892	4894	4	8
WASATCH	4900	4904	4	16

32. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 13 on attached listing. Under-displace to ~4820' and flush only with fresh water.

33. Set 8000 psi CBP at~4820'.

34. TIH with 3 7/8" mill, sliding sleeve, SN and tubing.

35. Drill plugs except plug at 8180' and clean out to 8175'. This well will NOT be commingled. Land tubing at $\pm 7350'$, and open sliding sleeve, unless indicated otherwise by the well's behavior.

36. RDMO

37. Clean out well with foam and/or swabbing unit until steady flow has been established from recomplete.

38. MIRU

39. Mill isolation plug and commingle well. Land tubing at $\sim 8086'$

40. RDMO

For design questions, please call
Curtis Caile, Denver, CO
(406)-490-2742 (Cell)
(720)-929-6194 (Office)

For field implementation questions, please call
Robert Miller, Vernal, UT
4350781 7041 (Office)

NOTES:

Stage	Zone	Feet of Pay	Perfs Top, ft	Perfs Bot, ft	SPF	Holes	Rate BPM	Fluid Type	Initial ppg	Final ppg	Fluid	Volume gals	Cum Vol gals	Volume BBLs	Cum Vol BBLs	Fluid % of frac	Sand % of frac	Sand lbs	Cum. Sand lbs	Footage from CBP to Flush	Scale Inhib., gal.
1	MESAVERDE	4	8116	8126	4	40	Varied	Pump-in test			Freshwater	0	0	0							
	MESAVERDE	14		No Perfs			0	ISIP and 5 min ISIP			Freshwater	2,754	2,754	66	66	16.0%	0.0%	0	0		17
	MESAVERDE	11		No Perfs			20	20#	1	1	Freshwater	1,205	3,959	29	94	7.0%	2.0%	1,205	1,205		8
	MESAVERDE	2		No Perfs			20	20# X-link	2	2	Freshwater	1,205	5,164	29	123	7.0%	4.1%	2,410	3,615		4
	MESAVERDE	3		No Perfs			20	20# X-link	3	3	Freshwater	4,303	9,467	102	225	25.0%	21.8%	12,909	16,524		13
	MESAVERDE	0		No Perfs			20	20# X-link	4	4	Freshwater	3,815	13,082	86	311	21.0%	24.4%	14,459	30,983		0
	MESAVERDE	0		No Perfs			20	20# X-link	6	6	Freshwater	2,410	15,491	57	369	14.0%	24.4%	14,459	45,441		0
	MESAVERDE	0		No Perfs			20	20# X-link	8	8	Freshwater	1,721	17,213	41	410	10.0%	23.3%	13,770	59,211		0
	MESAVERDE	0		No Perfs			20	Flush (4-1/2")			Freshwater	1,580	18,893	40	450			2,800	62,011		17
	MESAVERDE	0		No Perfs				ISDP and 5 min ISDP					18,893			100.0%					52
		41		# of Perfs/stage		40	22.5	See attached			Flush Sandplug calculation							425	1,631	lbs sand/ft	
2	MESAVERDE	3	7380	7382	4	8	Varied	Pump-in test			Freshwater	0	0	0							
	MESAVERDE	17	7408	7414	4	24	0	ISIP and 5 min ISIP			Freshwater	1,886	1,886	45	45	16.0%	0.0%	0	0		6
	MESAVERDE	2	7436	7438	4	8	20	20#	1	1	Freshwater	825	2,711	20	85	7.0%	2.0%	825	825		2
	MESAVERDE	0		No Perfs			20	20# X-link	2	2	Freshwater	825	3,536	20	84	7.0%	4.1%	1,650	2,475		2
	MESAVERDE	0		No Perfs			20	20# X-link	3	3	Freshwater	2,947	6,483	70	154	25.0%	21.8%	8,841	11,315		9
	MESAVERDE	0		No Perfs			20	20# X-link	4	4	Freshwater	2,475	8,959	59	213	21.0%	24.4%	9,902	21,218		0
	MESAVERDE	0		No Perfs			20	20# X-link	6	6	Freshwater	1,650	10,609	39	253	14.0%	24.4%	9,902	31,119		0
	MESAVERDE	0		No Perfs			20	20# X-link	8	8	Freshwater	1,178	11,788	28	281	10.0%	23.3%	9,450	40,549		0
	MESAVERDE	0		No Perfs			20	Flush (4-1/2")			Freshwater	7,192	18,980	171	452				40,549		72
	MESAVERDE	0		No Perfs				ISDP and 5 min ISDP					18,980			100.0%					91
		21		# of Perfs/stage		40	22.5	See attached			Flush Sandplug calculation							575	1,978	lbs sand/ft	
3	MESAVERDE	5	7282	7284	4	8	Varied	Pump-in test			Freshwater	0	0	0							
	MESAVERDE	2	7311	7313	4	8	0	ISIP and 5 min ISIP			Freshwater	1,892	1,892	45	45	16.0%	0.0%	0	0		6
	MESAVERDE	15	7322	7326	4	15	20	20#	1	1	Freshwater	828	2,720	20	85	7.0%	2.0%	828	828		2
	MESAVERDE	0		No Perfs			20	20# X-link	2	2	Freshwater	828	3,548	20	84	7.0%	4.1%	1,656	2,483		2
	MESAVERDE	0		No Perfs			20	20# X-link	3	3	Freshwater	2,958	6,504	70	155	25.0%	21.8%	8,869	11,352		9
	MESAVERDE	0		No Perfs			20	20# X-link	4	4	Freshwater	2,483	8,987	59	214	21.0%	24.4%	9,933	21,285		0
	MESAVERDE	0		No Perfs			20	20# X-link	6	6	Freshwater	1,656	10,643	39	253	14.0%	24.4%	9,933	31,218		0
	MESAVERDE	0		No Perfs			20	20# X-link	8	8	Freshwater	1,183	11,825	28	282	10.0%	23.3%	9,460	40,678		0
	MESAVERDE	0		No Perfs			20	Flush (4-1/2")			Freshwater	7,061	18,886	168	450				40,678		70
	MESAVERDE	0		No Perfs				ISDP and 5 min ISDP					18,886			100.0%					89
		22		# of Perfs/stage		32	22.5	See attached			Flush Sandplug calculation							550	1,892	lbs sand/ft	
4	WASATCH	2	6930	6932	4	8	Varied	Pump-in test			Freshwater	0	0	0							
	WASATCH	3	6976	6978	4	8	0	ISIP and 5 min ISIP			Freshwater	1,968	1,968	47	47	16.0%	0.0%	0	0		0
	WASATCH	3	7010	7012	4	8	20	20#	1	1	Freshwater	861	2,829	21	67	7.0%	2.0%	861	861		3
	WASATCH	6	7032	7034	4	6	20	20# X-link	2	2	Freshwater	861	3,690	21	88	7.0%	4.1%	1,722	2,583		3
	WASATCH	17	7078	7082	4	16	20	20# X-link	3	3	Freshwater	3,075	6,765	73	161	25.0%	21.8%	9,225	11,808		9
	WASATCH	0		No Perfs			20	20# X-link	4	4	Freshwater	2,583	9,348	62	223	21.0%	24.4%	10,332	22,140		0
	WASATCH	0		No Perfs			20	20# X-link	6	6	Freshwater	1,722	11,070	41	264	14.0%	24.4%	10,332	32,472		0
	WASATCH	0		No Perfs			20	20# X-link	8	8	Freshwater	1,230	12,300	29	293	10.0%	23.3%	9,840	42,312		0
	WASATCH	0		No Perfs			20	Flush (4-1/2")			Freshwater	6,739	19,039	160	453				42,312		67
	WASATCH	0		No Perfs				ISDP and 5 min ISDP					19,039			100.0%					87
		30		# of Perfs/stage		48	22.7	See attached			Flush Sandplug calculation							410	1,410	lbs sand/ft	
5	WASATCH	3	6764	6766	4	8	Varied	Pump-in test			Freshwater	0	0	0							
	WASATCH	2	6770	6772	4	8	0	ISIP and 5 min ISIP			Freshwater	1,978	1,978	47	47	16.0%	0.0%	0	0		0
	WASATCH	11	6810	6812	4	8	20	20#	1	1	Freshwater	865	2,841	21	68	7.0%	2.0%	865	865		3
	WASATCH	4	6830	6832	4	8	20	20# X-link	2	2	Freshwater	865	3,705	21	88	7.0%	4.1%	1,729	2,594		3
	WASATCH	7	6858	6862	4	16	20	20# X-link	3	3	Freshwater	3,088	6,763	74	162	25.0%	21.8%	9,263	11,856		9
	WASATCH	0		No Perfs			20	20# X-link	4	4	Freshwater	2,594	9,366	62	223	21.0%	24.4%	10,374	22,230		0
	WASATCH	0		No Perfs			20	20# X-link	6	6	Freshwater	1,729	11,115	41	265	14.0%	24.4%	10,374	32,604		0
	WASATCH	0		No Perfs			20	20# X-link	8	8	Freshwater	1,235	12,350	29	294	10.0%	23.3%	9,880	42,484		0
	WASATCH	0		No Perfs			20	Flush (4-1/2")			Freshwater	6,556	18,906	156	450				42,484		65
	WASATCH	0		No Perfs				ISDP and 5 min ISDP					18,906			100.0%					85
		25		# of Perfs/stage		48	21.9	See attached			Flush Sandplug calculation							475	1,634	lbs sand/ft	
6	WASATCH	2	6442	6444	4	8	Varied	Pump-in test			Freshwater	0	0	0							
	WASATCH	3	6476	6478	4	8	0	ISIP and 5 min ISIP			Freshwater	2,030	2,030	48	48	16.0%	0.0%	0	0		0
	WASATCH	14	6534	6538	4	16	20	20#	1	1	Freshwater	888	2,918	21	69	7.0%	2.0%	888	888		3
	WASATCH	2	6574	6576	4	8	20	20# X-link	2	2	Freshwater	888	3,805	21	91	7.0%	4.1%	1,776	2,664		3
	WASATCH	2	6596	6598	4	8	20	20# X-link	3	3	Freshwater	3,171	6,977	76	166	25.0%	21.8%	9,514	12,178		10
	WASATCH	0		No Perfs			20	20# X-link	4	4	Freshwater	2,564	9,641	63	230	21.0%	24.4%	10,655	22,833		0
	WASATCH	0		No Perfs			20	20# X-link	6	6	Freshwater	1,776	11,417	42	272	14.0%	24.4%	10,655	33,488		0
	WASATCH	0		No Perfs			20	20# X-link	8	8	Freshwater	1,269	12,685	30	302	10.0%	23.3%	10,148	43,636		0
	WASATCH	0		No Perfs			20	Flush (4-1/2")			Freshwater	6,273	18,958	149	451				43,636		62
	WASATCH	0		No Perfs				ISDP and 5 min ISDP					18,958			100.0%					83
		22		# of Perfs/stage		48	21.9	See attached			Flush Sandplug calculation							590	2,030	lbs sand/ft	

NBU 1021-31A
Perforation and CBP Summary

Stage	Zones	Perforations		SPF	Holes	Fracture Coverage		
		Top, ft	Bottom, ft					
1	MESAVERDE	8116	8126	4	40	7988	to	7991.5
	MESAVERDE		No Perfs			8050	to	8063.5
	MESAVERDE		No Perfs			8108.5	to	8117
	MESAVERDE		No Perfs			8119	to	8121
	MESAVERDE		No Perfs			8133	to	8141
	MESAVERDE		No Perfs			8143	to	8146
	# of Perfs/stage				40	CBP DEPTH	7,468	
2	MESAVERDE	7380	7382	4	8	7380	to	7382.5
	MESAVERDE	7408	7414	4	24	7403	to	7419.5
	MESAVERDE	7436	7439	4	8	7437	to	7438.5
	# of Perfs/stage				32	CBP DEPTH	7,356	
3	MESAVERDE	7282	7284	4	8	7279	to	7283.5
	MESAVERDE	7311	7313	4	8	7311	to	7313
	MESAVERDE	7322	7326	4	16	7319.5	to	7334.5
	# of Perfs/stage				48	CBP DEPTH	7,112	
4	WASATCH	6930	6932	4	8	6930	to	6932
	WASATCH	6976	6978	4	8	6975	to	6978
	WASATCH	7010	7012	4	8	7011	to	7014
	WASATCH	7032	7034	4	8	7030	to	7035.5
	WASATCH	7078	7082	4	16	7065.5	to	7092
	# of Perfs/stage				48	CBP DEPTH	6,892	
5	WASATCH	6764	6766	4	8	6763.5	to	6766.5
	WASATCH	6770	6772	4	8	6770.5	to	6772.5
	WASATCH	6810	6812	4	8	6808	to	6818
	WASATCH	6830	6832	4	8	6830	to	6833.5
	WASATCH	6858	6862	4	16	6856	to	6862.5
	# of Perfs/stage				48	CBP DEPTH	6,828	
6	WASATCH	6442	6444	4	8	6441.5	to	6443.5
	WASATCH	6476	6478	4	8	6475.5	to	6478
	WASATCH	6534	6536	4	16	6524.5	to	6538
	WASATCH	6574	6576	4	8	6575	to	6577
	WASATCH	6596	6598	4	8	6597.5	to	6599
	# of Perfs/stage				56	CBP DEPTH	6,415	
7	WASATCH	6226	6230	4	8	6226.5	to	6231.5
	WASATCH	6252	6254	4	8	6252	to	6255
	WASATCH	6274	6276	4	8	6274.5	to	6277.5
	WASATCH	6289	6291	4	8	6288.5	to	6292
	WASATCH	6315	6317	4	8	6316	to	6317.5
	WASATCH	6344	6345	4	4	6343.5	to	6345.5
	WASATCH	6362	6365	4	12	6361	to	6384
	# of Perfs/stage				48	CBP DEPTH	6,014	
8	WASATCH	5862	5864	4	8	5862.5	to	5864.5
	WASATCH	5870	5871	4	4	5869.5	to	5871
	WASATCH	5875	5876	4	4	5874	to	5876.5
	WASATCH	5917	5919	4	8	5917.5	to	5919
	WASATCH	5931	5933	4	8	5930.5	to	5934.5
	WASATCH	5940	5942	4	8	5940.5	to	5943.5
	WASATCH	5982	5984	4	8	5982.5	to	5984
	# of Perfs/stage				24	CBP DEPTH	5,816	
9	WASATCH	5698	5700	4	8	5699	to	5701.5
	WASATCH	5722	5724	4	8	5723	to	5725.5
	WASATCH	5784	5786	4	8	5784	to	5785
	# of Perfs/stage				28	CBP DEPTH	5,606	
10	WASATCH	5459	5461	4	8	5459.5	to	5461
	WASATCH	5526	5528	4	8	5526	to	5527
	WASATCH	5573	5575	4	12	5574	to	5575
	# of Perfs/stage				44	CBP DEPTH	6,372	
11	WASATCH	5220	5222	4	8	5248	to	5248
	WASATCH	5247	5249	4	8	5213	to	5219
	WASATCH	5270	5273	4	12	5269	to	5273.5
	WASATCH	5312	5314	4	8	5274.5	to	5277
	WASATCH	5340	5342	4	8	5311.5	to	5314.5
	WASATCH		No Perfs			5339.5	to	5342
	# of Perfs/stage				36	CBP DEPTH	5,088	
12	WASATCH	5008	5012	4	12	5010	to	5012.5
	WASATCH	5048	5050	4	8	5047	to	5049
	WASATCH	5054	5058	4	16	5053.5	to	5062
	# of Perfs/stage				40	CBP DEPTH	4,934	
13	Totals	4870	4872	4	8	4867	to	4875
		4878	4880	4	8	4877.5	to	4881
		4892	4894	4	8	4891	to	4894
		4900	4904	4	16	4897	to	4904.5
			No Perfs			4907.5	to	4910
						CBP DEPTH	4,920	
Totals					532			

		Stage 1					
(from wellhead to top perf)							
		Depth	Footage	I.D.	BBL/ft	BBL	
Casing Segment 1	4 1/2" 11.6 #	0	0	4	0.01554	0.00	
Casing Segment 2	2 7/8" 6.5 #	7768	7768	2.441	0.00579	44.96	
Csg to Top Perf	4 1/2" 11.6 #	8116	348	4	0.01554	5.41	
Plug Back ID		8174				50.37	
Top of Sand Plug	Desired	8056	108				
Top of Sand Plug	Actual	8056	0	Difference			
		Sand		Fluid Volume			
50 ft underflush at 8 ppg	261	pounds	1	BBL			
8 ppg SW plug	747	pounds	2	BBL			
0 ppg linear flush	0	pounds	47	BBL			
Total for Plug	1008	pounds	50.37	BBL			

(from wellhead to top pen)

		Depth	Footage	I.D.	BBL/ft	BBL
Casing Segment 1	4 1/2" 11.6 #	0	0	4	0.01554	0.00
Casing Segment 2	2 7/8" 6.5 #	7768	7768	2.441	0.00579	44.96
Csg to Top Perf	4 1/2" 11.6 #	8116	348	4	0.01554	5.41
Plug Back ID		8174				50.37
Top of Sand Plug	Desired	8066	108			
Top of Sand Plug	Actual	8066	0	Difference		

	Sand		Fluid Volume	
50 ft underflush at 8 ppq	261	pounds	1	BBL
8ppq SW plug	747	pounds	2	BBL
0 ppq linear flush	0	pounds	47	BBL
Total for Plug	1008	pounds	50.37	BBL

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL ☐ GAS WELL ☒ OTHER _____

2. NAME OF OPERATOR:
KERR MCGEE OIL & GAS ONSHORE LP

3. ADDRESS OF OPERATOR:
1368 SOUTH 1200 EAST CITY VERNAL STATE UT ZIP 84078

PHONE NUMBER:
(435) 781-7024

5. LEASE DESIGNATION AND SERIAL NUMBER:
ML-22794

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:
UNIT#891008900A

8. WELL NAME and NUMBER:
NBU 1021-31A

9. API NUMBER:
4304739111

10. FIELD AND POOL, OR WILDCAT:

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 744' FNL, 815' FEL

COUNTY: UINTAH

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENE 31 10S 21E

STATE: UTAH

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input checked="" type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

THE OPERATOR REQUESTS AUTHORIZATION TO RECOMPLETE THE SUBJECT WELL LOCATION. THE OPERATOR PROPOSES TO COMPLETE THE WASATCH FORMATION, AND COMMINGLE THE NEWLY WASATCH FORMATION ALONG WITH THE EXISTING FORMATION.

PLEASE REFER TO THE ATTACHED RECOMPLETION PROCEDURE.

COPY SENT TO OPERATOR

Date: 11.25.2008

Initials: KS

NAME (PLEASE PRINT) SHEILA UPCHEGO

TITLE REGULATORY ANALYST

SIGNATURE

DATE 10/14/2008

(This space for State use only)

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

DATE: 11/18/08

BY: [Signature] (See Instructions on Reverse Side)

*Case 173-14

RECEIVED

OCT 20 2008

DIV. OF OIL, GAS & MINING

Name: NBU 1021-31A
Location: NE NE Sec 31 T10S R21E
Uintah County, UT
Date: 10/09/2008

ELEVATIONS: 5293 GL 5310 KB

TOTAL DEPTH: 9100 **PBTD:** 9053
SURFACE CASING: 9 5/8", 36# J-55 ST&C @ 1934'
PRODUCTION CASING: 4 1/2", 11.6#, I-80 LT&C @ 9098'
 Marker Joint **4181-4202'**

TUBULAR PROPERTIES:

	BURST (psi)	COLLAPSE (psi)	DRIFT DIA. (in.)	CAPACITIES	
				(bbl/ft)	(gal/ft)
2 3/8" 4.7# J-55 tbg	7,700	8,100	1.901"	0.00387	0.1624
4 1/2" 11.6# I-80 (See above)	7780	6350	3.875"	0.0155	0.6528
2 3/8" by 4 1/2" Annulus				0.0101	0.4227
2 7/8" 6.5# N-80 tbg	10570	11160	2.347	0.005794	0.2433

TOPS:

1021' Green River
 1566' Mahogany
 4185' Wasatch
 7024' Mesaverde
 Estimated T.O.C. from CBL @1800

GENERAL:

- There will need to be two gun runs for stages 7 and 8
- A minimum of 14 tanks (cleaned lined 500 bbl) of **FRESH** water will be required. Note: Use biocide in tanks and the water needs to be at least 65-75°F at pump time.
- All perforation depths are from Halliburtons Induction-Density-Neutron log dated 11/12/2007
- 13 fracturing stages required for coverage.
- Procedure calls for 14 CBP's (8000 psi) and 1 retrievable packer (10,000 psi)
- Calculate open perforations after each breakdown. If less than 60% of the perforations appear to be open, ball out with 15% HCl.
- Put scale inhibitor 3 gals/1000 gals (in pad and 1/2 the ramp) and 10 gals/1000 gals in all flushes except the final stage. Remember to pre-load the casing with scale inhibitor for the very first stage with 10 gpt.
- 20/40 mesh Ottawa sand, 25# Gel Frac

- Maximum surface pressure **6200** psi.
- Flush volumes are the sum of slick water and acid used during displacement (include scale inhibitor as mentioned above). **DO NOT OVERDISPLACE**. Stage acid and scale inhibitor if necessary to cover the next perforated interval.
- Service companies need to provide surface/production annulus pop-offs to be set for 1500 psi for each frac.
- Pump **resin coated sand** last 5,000# of all frac stages
- Tubing currently landed at ~8404'

Existing Perforations:

MESAVERDE	8876	8880	4	16
MESAVERDE	8970	8976	4	24
MESAVERDE	8662	8665	4	12
MESAVERDE	8746	8749	3	9
MESAVERDE	8800	8805	4	20
MESAVERDE	8438	8442	3	12
MESAVERDE	8560	8570	3	30
MESAVERDE	8305	8315	4	40
MESAVERDE	7700	7708	4	32
MESAVERDE	7756	7758	4	8

PROCEDURE:

1. MIRU. Control well with recycled water and biocide as required. ND WH, NU BOP's and test.
2. TOOH with 2-3/8", 4.7#, J-55 (or N-80) tubing (currently landed at ~8404'). Visually inspect for scale and consider replacing if needed.
3. If tbg looks ok consider running a gauge ring to 8230 (50' below proposed CBP). Otherwise P/U a mill and C/O to 8230 (50' below proposed CBP).
4. Set 8000 psi CBP at ~ 8156'.
5. PU 10,000 psi packer and TIH w/ 2 7/8" tbg and set packer at 7780' Existing perfs at 7756-7758'. Test tubing, packer & casing to 6200 psi..
6. Perf the following with 1 9/16" gun

Zone	From	To	spf	# of shots
MESAVERDE	8116	8126	4	40
7. POOH w/ WL. Pump 250 gal 15% HCL to perfs followed by gel. SD. Let acid soak for 5-10 min. Breakdown perfs and establish injection rate (include scale inhibitor in fluid). Fracture as outlined in Stage 1 on attached listing. FOLLOW FLUSH/SANDPLUG

CALCULATION AT TOP OF PAGE 11 Note: **The flush should be pumped as normal. Wait on sand to fall and verify top of sand with a dump bailer.** Dump Bail 10 ft of cement on top of sand plug. This should take 3 runs. Let set over night.

8. Control well as needed with 2% KCL and biocide. TOOH with 2 7/8" workstring and packer and laydown. RIH with 4 1/2" 8000 psi CBP and set at ~7468'. Test casing and BOPE to 6200 psi.

9. Perf the following 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
MESAVERDE	7380	7382	4	8
MESAVERDE	7408	7414	4	24
MESAVERDE	7436	7438	4	8

10. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 2 on attached listing. Under-displace to ~7366' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

NOTE TIGHT SPACING

11. Set 8000 psi CBP at ~7356'. Perf the following 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
MESAVERDE	7282	7284	4	8
MESAVERDE	7311	7313	4	8
MESAVERDE	7322	7326	4	16

12. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 3 on attached listing. Under-displace to ~7232' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

13. Set 8000 psi CBP at ~7112'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	6930	6932	4	8
WASATCH	6976	6978	4	8
WASATCH	7010	7012	4	8
WASATCH	7032	7034	4	8
WASATCH	7078	7082	4	16

14. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 4 on attached listing. Under-displace to ~6902' trickle 250gal 15%HCL w/ scale inhibitor in flush.

NOTE TIGHT SPACING

15. Set 8000 psi CBP at ~6892'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	6764	6766	4	8
WASATCH	6770	6772	4	8
WASATCH	6810	6812	4	8
WASATCH	6830	6832	4	8
WASATCH	6858	6862	4	16

16. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 5 on attached listing. Under-displace to ~6714' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

17. Set 8000 psi CBP at ~6628'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	6442	6444	4	8
WASATCH	6476	6478	4	8
WASATCH	6534	6538	4	16
WASATCH	6574	6576	4	8
WASATCH	6596	6598	4	8

18. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 6 on attached listing. Under-displace to ~6425' and trickle 250gal 15%HCL w/ scale inhibitor in flush.
NOTE TIGHT SPACING

19. Set 8000 psi CBP at ~6415'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole: **Note: 2 gun runs**

Zone	From	To	spf	# of shots
WASATCH	6228	6230	4	8
WASATCH	6252	6254	4	8
WASATCH	6274	6276	4	8
WASATCH	6289	6291	4	8
WASATCH	6315	6317	4	8
WASATCH	6344	6345	4	4
WASATCH	6382	6385	4	12

20. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 7 on attached listing. Under-displace to ~6178' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

21. Set 8000 psi CBP at ~6014'. Perf the following 3-3/8" gun, 23 gm, 0.36" hole: **Note: 2 gun runs**

Zone	From	To	spf	# of shots
WASATCH	5862	5864	4	8
WASATCH	5870	5871	4	4
WASATCH	5875	5876	4	4
WASATCH	5917	5919	4	8
WASATCH	5931	5933	4	8
WASATCH	5940	5942	4	8
WASATCH	5982	5984	4	8

22. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 8 on attached listing. Under-displace to ~5826' and trickle 250gal 15%HCL w/ scale inhibitor in flush.
NOTE TIGHT SPACING

23. Set 8000 psi CBP at ~5816'. Perf the following with 3-3/8" gun, 23 gm, 0.36"hole:

Zone	From	To	spf	# of shots
WASATCH	5698	5700	4	8
WASATCH	5722	5724	4	8
WASATCH	5784	5786	4	8

24. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 9 on attached listing. Under-displace to ~5648' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

25. Set 8000 psi CBP at ~5606'. Perf the following with 3-3/8" gun, 23 gm, 0.36"hole:

Zone	From	To	spf	# of shots
WASATCH	5459	5461	4	8
WASATCH	5526	5528	4	8
WASATCH	5573	5576	4	12

26. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 10 on attached listing. Under-displace to ~5409' and trickle 250gal 15%HCL w/ scale inhibitor in flush
.NOTE TIGHT SPACING

27. Set 8000 psi CBP at~5372'. . Perf the following with 3-3/8" gun, 23 gm, 0.36"hole:

Zone	From	To	spf	# of shots
WASATCH	5220	5222	4	8
WASATCH	5247	5249	4	8
WASATCH	5270	5273	4	12
WASATCH	5312	5314	4	8
WASATCH	5340	5342	4	8

28. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 11 on attached listing. Under-displace to ~5170' and trickle 250gal 15%HCL w/ scale inhibitor in flush

29. Set 8000 psi CBP at~5088'. . Perf the following with 3-3/8" gun, 23 gm, 0.36"hole:

Zone	From	To	spf	# of shots
WASATCH	5009	5012	4	12
WASATCH	5048	5050	4	8
WASATCH	5054	5058	4	16

30. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 12 on attached listing. Under-displace to ~4959' and trickle 250gal 15%HCL w/ scale inhibitor in flush
.NOTE TIGHT SPACING

31. Set 8000 psi CBP at~4934'. . Perf the following with 3-3/8" gun, 23 gm, 0.36"hole:

Zone	From	To	spf	# of shots
WASATCH	4870	4872	4	8
WASATCH	4878	4880	4	8
WASATCH	4892	4894	4	8
WASATCH	4900	4904	4	16

32. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 13 on attached listing. Under-displace to ~4820' and flush only with fresh water.

33. Set 8000 psi CBP at~4820'.

34. TIH with 3 7/8" mill, sliding sleeve, SN and tubing.

35. Drill plugs except plug at 8180' and clean out to 8175'. This well will NOT be commingled. Land tubing at $\pm 7350'$, and open sliding sleeve, unless indicated otherwise by the well's behavior.
36. RDMO
37. Clean out well with foam and/or swabbing unit until steady flow has been established from recomplete.
38. MIRU
39. Mill isolation plug and commingle well. Land tubing at $\sim 8086'$
40. RDMO

**For design questions, please call
Curtis Caile, Denver, CO
(406)-490-2742 (Cell)
(720)-929-6194 (Office)**

**For field implementation questions, please call
Robert Miller, Vernal, UT
4350781 7041 (Office)**

NOTES:

Stage	Zone	Feet of Pay	Perfs Top, ft.	Perfs Bot, ft.	SPF	Holes	Rate BPM	Fluid Type	Initial ppg	Final ppg	Fluid	Volume gals	Cum Vol gals	Volume BBLs	Cum Vol BBLs	Fluid % of frac	Sand % of frac	Sand lbs	Cum. Sand lbs	Footage from CBP to Flush	Scale Inhib., gal.
1	MESAVERDE	4	8116	8126	4	40	Varied	Pump-in test			Freshwater		0	0	0						17
	MESAVERDE	14		No Perfs			0	ISIP and 5 min ISIP			Freshwater	2,754	2,754	66	66	16.0%	0.0%	0	0		8
	MESAVERDE	11		No Perfs			20	20#			Freshwater	1,205	3,959	29	94	7.0%	2.0%	1,205	1,205		4
	MESAVERDE	2		No Perfs			20	20# X-link	1	1	Freshwater	1,205	5,164	29	123	7.0%	4.1%	2,410	3,615		4
	MESAVERDE	6		No Perfs			20	20# X-link	2	2	Freshwater	4,303	9,467	102	225	25.0%	21.6%	12,909	16,524		13
	MESAVERDE	3		No Perfs			20	20# X-link	4	4	Freshwater	3,615	13,082	86	311	21.0%	24.4%	14,459	30,983		0
	MESAVERDE	0					20	20# X-link	6	6	Freshwater	2,410	15,491	57	369	14.0%	24.4%	14,459	45,441		0
	MESAVERDE	0					20	20# X-link	8	8	Freshwater	1,721	17,213	41	410	10.0%	23.3%	13,770	59,211		0
	MESAVERDE	0					20	Flush (4-1/2")				1,680	18,893	40	450			2,800	62,011		17
	MESAVERDE	0						ISDP and 5 min ISDP					18,893			100.0%					62
		41	# of Perfs/stage			40		See attached Flush Sandplug calculation													
							22.5										gal/ft	425	1,531	lbs sand/ft	
2	MESAVERDE	3	7380	7382	4	8	Varied	Pump-in test			Freshwater		0	0	0						
	MESAVERDE	17	7408	7414	4	24	0	ISIP and 5 min ISIP			Freshwater	1,886	1,886	45	45	16.0%	0.0%	0	0		6
	MESAVERDE	2	7436	7438	4	8	20	20#			Freshwater	825	2,711	20	65	7.0%	2.0%	825	825		2
	MESAVERDE	0					20	20# X-link	1	1	Freshwater	825	3,536	20	84	7.0%	4.1%	1,650	2,475		2
	MESAVERDE	0					20	20# X-link	3	3	Freshwater	2,947	6,483	70	154	25.0%	21.6%	8,841	11,316		9
	MESAVERDE	0					20	20# X-link	4	4	Freshwater	2,475	8,959	59	213	21.0%	24.4%	9,902	21,218		0
	MESAVERDE	0					20	20# X-link	6	6	Freshwater	1,650	10,609	39	253	14.0%	24.4%	9,902	31,119		0
	MESAVERDE	0					20	20# X-link	8	8	Freshwater	1,179	11,788	28	281	10.0%	23.3%	9,430	40,549		0
	MESAVERDE	0					20	Flush (4-1/2")				7,192	18,980	171	452				40,549		72
	MESAVERDE	0						ISDP and 5 min ISDP					18,980			100.0%					91
		21	# of Perfs/stage			40											gal/ft	575	1,978	lbs sand/ft	
							22.6	<< Above pump time (min)													
3	MESAVERDE	5	7282	7284	4	8	Varied	Pump-in test			Freshwater		0	0	0						
	MESAVERDE	2	7311	7313	4	8	0	ISIP and 5 min ISIP			Freshwater	1,892	1,892	45	45	16.0%	0.0%	0	0		6
	MESAVERDE	15	7322	7326	4	16	20	20#			Freshwater	828	2,720	20	65	7.0%	2.0%	828	828		2
	MESAVERDE	0					20	20# X-link	1	1	Freshwater	828	3,548	20	84	7.0%	4.1%	1,656	2,483		2
	MESAVERDE	0					20	20# X-link	2	2	Freshwater	2,956	6,504	70	155	25.0%	21.6%	8,899	11,352		9
	MESAVERDE	0					20	20# X-link	3	3	Freshwater	2,483	8,987	59	214	21.0%	24.4%	9,933	21,285		0
	MESAVERDE	0					20	20# X-link	4	4	Freshwater	1,656	10,643	39	253	14.0%	24.4%	9,933	31,218		0
	MESAVERDE	0					20	20# X-link	6	6	Freshwater	1,183	11,825	28	282	10.0%	23.3%	9,460	40,678		0
	MESAVERDE	0					20	Flush (4-1/2")				7,061	18,886	168	450				40,678		70
	MESAVERDE	0						ISDP and 5 min ISDP					18,886			100.0%					89
		22	# of Perfs/stage			32											gal/ft	550	1,892	lbs sand/ft	
							22.5	<< Above pump time (min)													
4	WASATCH	2	6930	6932	4	8	Varied	Pump-in test			Freshwater		0	0	0						
	WASATCH	3	6976	6978	4	8	0	ISIP and 5 min ISIP			Freshwater	1,968	1,968	47	47	16.0%	0.0%	0	0		0
	WASATCH	3	7010	7012	4	8	20	20#			Freshwater	861	2,829	21	67	7.0%	2.0%	861	861		6
	WASATCH	6	7032	7034	4	8	20	20# X-link	1	1	Freshwater	861	3,690	21	88	7.0%	4.1%	1,722	2,583		3
	WASATCH	17	7078	7082	4	16	20	20# X-link	2	2	Freshwater	3,075	6,765	73	161	25.0%	21.6%	9,225	11,808		9
	WASATCH	0					20	20# X-link	3	3	Freshwater	2,583	9,348	62	223	21.0%	24.4%	10,332	22,140		0
	WASATCH	0					20	20# X-link	4	4	Freshwater	1,722	11,070	41	264	14.0%	24.4%	10,332	32,472		0
	WASATCH	0					20	20# X-link	6	6	Freshwater	1,230	12,300	29	293	10.0%	23.3%	9,840	42,312		0
	WASATCH	0					20	Flush (4-1/2")				6,739	19,039	160	453				42,312		67
	WASATCH	0						ISDP and 5 min ISDP					19,039			100.0%					87
		30	# of Perfs/stage			48											gal/ft	410	1,410	lbs sand/ft	
							22.7	<< Above pump time (min)													
5	WASATCH	3	6764	6766	4	8	Varied	Pump-in test			Freshwater		0	0	0						
	WASATCH	2	6770	6772	4	8	0	ISIP and 5 min ISIP			Freshwater	1,976	1,976	47	47	16.0%	0.0%	0	0		0
	WASATCH	11	6810	6812	4	8	20	20#			Freshwater	865	2,841	21	68	7.0%	2.0%	865	865		6
	WASATCH	4	6830	6832	4	8	20	20# X-link	1	1	Freshwater	865	3,705	21	88	7.0%	4.1%	1,729	2,594		3
	WASATCH	7	6858	6862	4	16	20	20# X-link	2	2	Freshwater	3,088	6,793	74	162	25.0%	21.6%	9,263	11,856		9
	WASATCH	0					20	20# X-link	3	3	Freshwater	2,594	9,386	62	223	21.0%	24.4%	10,374	22,230		0
	WASATCH	0					20	20# X-link	4	4	Freshwater	1,729	11,115	41	265	14.0%	24.4%	10,374	32,604		0
	WASATCH	0					20	20# X-link	6	6	Freshwater	1,235	12,350	29	294	10.0%	23.3%	9,880	42,484		0
	WASATCH	0					20	Flush (4-1/2")				6,556	18,906	156	450				42,484		65
	WASATCH	0						ISDP and 5 min ISDP					18,906			100.0%					85
		26	# of Perfs/stage			48											gal/ft	475	1,634	lbs sand/ft	
							22.5	<< Above pump time (min)													
6	WASATCH	2	6442	6444	4	8	Varied	Pump-in test			Freshwater		0	0	0						
	WASATCH	3	6476	6478	4	8	0	ISIP and 5 min ISIP			Freshwater	2,030	2,030	48	48	16.0%	0.0%	0	0		0
	WASATCH	14	6534	6538	4	16	20	20#			Freshwater	888	2,918	21	69	7.0%	2.0%	888	888		6
	WASATCH	2	6574	6576	4	8	20	20# X-link	1	1	Freshwater	888	3,806	21	91	7.0%	4.1%	1,776	2,664		3
	WASATCH	0					20	20# X-link	2	2	Freshwater	3,171	6,977	76	166	25.0%	21.6%	9,514	12,178		10
	WASATCH	0					20	20# X-link	3	3	Freshwater	2,664	9,641	63	230	21.0%	24.4%	10,655	22,833		0
	WASATCH	0					20	20# X-link	4	4	Freshwater	1,776	11,417	42	272	14.0%	24.4%	10,655	33,488		0
	WASATCH	0					20	20# X-link	6	6	Freshwater	1,269	12,685	30	302	10.0%	23.3%	10,148	43,636		0
	WASATCH	0					20	Flush (4-1/2")				6,273	18,958	149	451				43,636		62
	WASATCH	0						ISDP and 5 min ISDP					18,958			100.0%					83
		22	# of Perfs/stage			48											gal/ft	590	2,030	lbs sand/ft	
							22.5	<< Above pump time (min)													

NBU 1021-31A
Perforation and CBP Summary

Stage	Zones	Perforations		SPF	Holes	Fracture Coverage		
		Top, ft	Bottom, ft					
1	MESAVERDE	8116	8126	4	40	7988	to	7991.5
	MESAVERDE		No Perfs			8050	to	8063.5
	MESAVERDE		No Perfs			8106.5	to	8117
	MESAVERDE		No Perfs			8119	to	8121
	MESAVERDE		No Perfs			8133	to	8141
	MESAVERDE		No Perfs			8143	to	8146
	# of Perfs/stage				40	CBP DEPTH	7,468	
2	MESAVERDE	7380	7382	4	8	7380	to	7382.5
	MESAVERDE	7408	7414	4	24	7403	to	7419.5
	MESAVERDE	7436	7438	4	8	7437	to	7438.5
	# of Perfs/stage				32	CBP DEPTH	7,356	
3	MESAVERDE	7282	7284	4	8	7279	to	7283.5
	MESAVERDE	7311	7313	4	8	7311	to	7313
	MESAVERDE	7322	7326	4	16	7319.5	to	7334.5
	# of Perfs/stage				48	CBP DEPTH	7,112	
4	WASATCH	6930	6932	4	8	6930	to	6932
	WASATCH	6976	6978	4	8	6975	to	6978
	WASATCH	7010	7012	4	8	7011	to	7014
	WASATCH	7032	7034	4	8	7030	to	7035.5
	WASATCH	7078	7082	4	16	7065.5	to	7082
	# of Perfs/stage				48	CBP DEPTH	6,892	
5	WASATCH	6764	6766	4	8	6763.5	to	6766.5
	WASATCH	6770	6772	4	8	6770.5	to	6772.5
	WASATCH	6810	6812	4	8	6808	to	6819
	WASATCH	6830	6832	4	8	6830	to	6833.5
	WASATCH	6858	6862	4	16	6856	to	6862.5
	# of Perfs/stage				48	CBP DEPTH	6,628	
6	WASATCH	6442	6444	4	8	6441.5	to	6443.5
	WASATCH	6476	6478	4	8	6475.5	to	6478
	WASATCH	6534	6538	4	16	6524.5	to	6538
	WASATCH	6574	6576	4	8	6575	to	6577
	WASATCH	6596	6598	4	8	6597.5	to	6599
	# of Perfs/stage				56	CBP DEPTH	6,415	
7	WASATCH	6228	6230	4	8	6226.5	to	6231.5
	WASATCH	6252	6254	4	8	6252	to	6255
	WASATCH	6274	6276	4	8	6274.5	to	6277.5
	WASATCH	6289	6291	4	8	6288.5	to	6292
	WASATCH	6315	6317	4	8	6316	to	6317.5
	WASATCH	6344	6345	4	4	6343.5	to	6345.5
	WASATCH	6382	6385	4	12	6381	to	6384
	# of Perfs/stage				48	CBP DEPTH	6,014	
8	WASATCH	5862	5864	4	8	5862.5	to	5864.5
	WASATCH	5870	5871	4	4	5869.5	to	5871
	WASATCH	5875	5876	4	4	5874	to	5876.5
	WASATCH	5917	5919	4	8	5917.5	to	5919
	WASATCH	5931	5933	4	8	5930.5	to	5934.5
	WASATCH	5940	5942	4	8	5940.5	to	5943.5
	WASATCH	5982	5984	4	8	5982.5	to	5984
	# of Perfs/stage				24	CBP DEPTH	5,816	
9	WASATCH	5698	5700	4	8	5699	to	5701.5
	WASATCH	5722	5724	4	8	5723	to	5725.5
	WASATCH	5784	5786	4	8	5784	to	5785
	# of Perfs/stage				28	CBP DEPTH	5,606	
10	WASATCH	5459	5461	4	8	5459.5	to	5461
	WASATCH	5526	5528	4	8	5526	to	5527
	WASATCH	5573	5576	4	12	5574	to	5575
	# of Perfs/stage				44	CBP DEPTH	5,372	
11	WASATCH	5220	5222	4	8	5248	to	5249
	WASATCH	5247	5249	4	8	5213	to	5219
	WASATCH	5270	5273	4	12	5289	to	5273.5
	WASATCH	5312	5314	4	8	5274.5	to	5277
	WASATCH	5340	5342	4	8	5311.5	to	5314.5
	WASATCH		No Perfs			5339.5	to	5342
	# of Perfs/stage				36	CBP DEPTH	5,088	
12	WASATCH	5009	5012	4	12	5010	to	5012.5
	WASATCH	5048	5050	4	8	5047	to	5049
	WASATCH	5054	5058	4	16	5053.5	to	5062
	# of Perfs/stage				40	CBP DEPTH	4,934	
13	Totals	4870	4872	4	8	4867	to	4875
		4878	4880	4	8	4877.5	to	4881
		4892	4894	4	8	4891	to	4894
		4900	4904	4	16	4897	to	4904.5
			No Perfs			4907.5	to	4910
						CBP DEPTH	4,820	
Totals					532			

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: ML-22794
2. NAME OF OPERATOR: KERR MCGEE OIL & GAS ONSHORE LP		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 1368 SOUTH 1200 EAST CITY VERNAL STATE UT ZIP 84078		7. UNIT or CA AGREEMENT NAME: UNIT #891008900A
4. LOCATION OF WELL FOOTAGES AT SURFACE: 744'FNL, 815'FEL		8. WELL NAME and NUMBER: NBU 1021-31A
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENE 31 10S 21E		9. API NUMBER: 4304739111
COUNTY: UINTAH		10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES
STATE: UTAH		


11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input checked="" type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

THE OPERATOR HAS PERFORMED AN RECOMPLETION ON THE SUBJECT WELL LOCATION. THE OPERATOR HAS COMPLETED THE WASATCH FORMATION, THE OPERATOR HAS COMMINGLED THE NEWLY WASATCH FORMATION ALONG WITH THE EXISTING MESAVERDE FORMATIONS. THE OPERATOR HAS PLACED THE SUBJECT WELL LOCATION BACK TO PRODUCTION ON 12/16/2008 AT 3:30 PM.

PLEASE REFER TO THE ATTACHED RECOMPLETION CHRONOLOGICAL WELL HISTORY.

NAME (PLEASE PRINT) SHEILA UPCHEGO	TITLE REGULATORY ANALYST
SIGNATURE 	DATE 12/17/2008

(This space for State use only)

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DEC 22 2008
DIV. OF OIL, GAS & MINING

Wells No.: 95292		NBU 1021-31A		API No.: 4304739111	
EVENT INFORMATION:		EVENT ACTIVITY: RECOMPLETION		START DATE: 11/10/2008	
		OBJECTIVE: DEVELOPMENT		END DATE: 12/15/2008	
		OBJECTIVE 2: RECOMPLETE		DATE WELL STARTED PROD.:	
		REASON: MVWAS GEL		Event End Status: COMPLETE	
RIG OPERATIONS:		Begin Mobilization	Rig On Location	Rig Charges	Rig Operation Start
LEED 693 / 693		11/15/2008			12/15/2008
					12/15/2008
Date	Time Start-End	Duration (hr)	Phase	Code	Subcode
Operation					
11/15/2008	SUPERVISOR: CLAUD SIMS MD:				
	7:00 - 7:30	0.50	COMP	48	P JSA-SAFETY MEETING, DAY 1
	7:30 - 9:30	2.00	COMP	30	P ROAD RIG FROM BLACK 6-155 TO LOC,
	9:30 - 13:00	3.50	COMP	30 A	P MIRU LEED 733, BLOWED WELL DN, PUMP 30 BBLS 2% KCL
	13:00 - 16:30	3.50	COMP	31 I	P WTR DN TBG, N/D WH, N/U BOPS, R/U FLOOR AND TBG EQUIP.
					P TOO H W/ 2-3/8" TBG, LAYED DN 17 JTS, STAND BACK 125
					P STANDS, 267 JTS,
					P SWI SDFN
11/16/2008	SUPERVISOR: CLAUD SIMS MD:				
	7:00 - 7:30	0.50	COMP	48	P JSA-SAFETY MEETING #2, DAY 2
	7:30 - 11:00	3.50	COMP	34 I	P 650# ON WELL, BLOWED DN TO TK, PUMP 30 BBLS DN CSG, R/U
					P SCHLUMBERGER WIRELINE W/ HAVE TO REHEAD WIRE, RIH W/
					P GAUGE RING, RIH W/ BAKER8K CBP, SET CBP @ 8156', R/D
					P WIRELINE.
	11:00 - 18:00	7.00	COMP	31	P CHANGE PIPE RAMS TO 2-7/8" RAM, CHANGE TBG EQUIP TO
					P 2-7/8" TBG, P/U BAKER 10K PACKER, XN-NIPPLE, X-OVER, RIH
					P W/ 2-7/8" PH6 TBG, TRY SET PACKER @ 7800', PACKER WOULD
					P NOT SET, MOVE PACKER TRY TO RESET PACKER, PACKER
					P WOULD NOT SET,
					P SDFN.
11/17/2008	SUPERVISOR: CLAUD SIMS MD:				
	7:00 - 7:30	0.50	COMP	48	P JSA-SAFETY MEETING #3, DAY 3
	7:30 - 10:00	2.50	COMP	31 I	P TRY TO SET PACKER, TOO H W/ 2-7/8" TBG, POOH 243 JTS, LEFT
					P 6 JTS AND PACKER, TBG CAME UNSCREWED,
	10:00 - 14:30	4.50	COMP	31 I	P CHANGED TBG EQUIP OVER TO 2-3/8" TBG, P/U CROSS OVER
					P FROM 2-7/8" PH6 TO 2-3/8" EUE, RIH W/ 2-3/8" TBG 7797', SCREW
					P INTO 2-7/8" TBG, WORK TBG MAKE SURE TBG WAS TIGHT, RIH
					P TO 7860', PULLED UP TO 7800' SET PACKER P/U RELEASE
					P PACKER, TRY TO TIGHTEN TBG AGAIN,
	14:30 - 18:00	3.50	COMP	31 I	P TOO H W/ 2-3/8" TBG, LAYED DN 6 JTS 2-7/8" TBG AND BAKER
					P PACKER, CHANGE TBG EQUIP BACK TO 2-7/8", SHUT WELL IN
					P SDFN
11/18/2008	SUPERVISOR: CLAUD SIMS MD:				
	7:00 - 7:30	0.50	COMP	48	P JSA-SAFETY MEETING #4, DAY 4,
	7:30 - 10:30	3.00	COMP	31 I	P P/U BAKER 10K RIGHT HAND SET PACKER, TIH W/ 2-7/8" TBG,
					P SET PACKER @ 7800',
	10:30 - 13:00	2.50	COMP	33 B	P R/U DELSCO SLICKLINE, RIH SET STANDING VALVE IN
					P XN-NIPPLE, R/U BC QUICK TEST, PRESSURE TEST TBG AND
					P FRAC VALVE TO 8400#, (OK), RIH W/ SLICKLINE RETRIEVE
					P STANDING VALVE, R/D SLICKLINE, PRESSURE TEST CBP, CSG,
					P PACKER, TBG & FRAC VALVE TO 6000#, (OK),
	13:00 - 18:00	5.00	COMP	36	P HOLD SAFETY MEETING W/ SCHLUMBERGER FRAC & PERF
					P CREW, R/U SCHLUMBERGER WIRELINE, RIH W/ PERF GUNS,
					P PERF THE MV @ 8116 TO 8126' 4-SPF, USING 1-9/16" TITAN SDP
					P GUNS, 3.2 gm, 0.20 HOLE, 0*PHS, 40 HOLES, WHP = 60#
					P BRK DN PERF @ 5943# @ 5 B/M, INJ-RT= 5 B/M, INJ-P = 7430#,
					P ISIP = 2400#, F.G.= .73, PUMP 3 BBLS 15% HCL AHEAD OF INJ,
					P CALC 65% PERF OPEN, PUMP 596 BBL GEL WTR & 60142 #
					P OTTAWA 20/40 SAND, ISIP = 6600#, F.G. = 1.24 MP = 8522#, MR =
					P 20.9 B/M, AP = 7181#, AR = 16.3B/M,
					P CUT WHITE SAND 2,000# SHORT, SCREEN OUT ON FLUSH LAST
					P 3 BBLS, FLOWED WELL BACK FOR 30 MIN, CLEAN UP SAND,
					P PUMP 50 BBLS FLUSH CLEAR PERF, MIX 1 BBL CEMENT AND
					P PUMP DN TO @ 7950' (150' BELOW PACKER), SHUT WELL IN,
					P DRAIN UP LINES. SDFN
11/19/2008	SUPERVISOR: CLAUD SIMS MD:				
	7:00 - 7:30	0.50	COMP	48	P JSA-SAFETY MEETING #5, DAY 5,

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DEC 22 2008

12/16/2008 9:15:39AM

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DIV. OF OIL, GAS & MINING

7:30 - 9:00	1.50	COMP		P	1500# ON TBG, BLEED DN TO TK SLOW W/ PRESSURE DN TO ZERO W/ WTR STILL FLOWING BACK, SHUT TBG IN PRESSURE UP TO 1200#, OPEN RBG UP FLOWED BK @ 30 BBL WTR THEN SOME GREEN CEMENT, FLOWED TBG BK @ 60 BBLs, SHUT TBG IN,
9:00 - 10:00	1.00	COMP	31	E	P R/U SCHLUMBERGER FRAC PUMP, PUMP DN TBG W/ PRESSURE UP TO 7450#, PRESSURE DROP DN TO 3500#, PUMP 30 BBLs PRESSURE DROP TO 1000#, PUMP TOTAL OF 50 BBLs SHUT DN PRESSURE DROP TO 60#,
10:00 - 11:30	1.50	COMP	34	G	P R/U SCHLUMBERGER WIRELINE, RIH W/ SINKER BARS TAG FILL @ 8126', POOH R/D WIRELINE
11:30 - 14:30	3.00	COMP		P	WAIT ON FRESH WATER TRUCK. HOLD JSA MEETING W/ ALL ON LOC.
14:30 - 16:00	1.50	COMP	31	F	P MIX UP 4SACKS CEMENT, PUT CEMENT IN PUMP HOSE, PUMP 300# OF 8# SAND, SWITCH OVER PUMP CEMENT W/ FLUSH W/ 41.4 BBLs OF WTR, TOP CEMENT @ 7950', SAND PLUG @ 8090' TO 8126', ACROSS PERF, SHUT TBG IN, CLEAN UP PUMPS, SDFN W/ 2000# ON TBG.
11/20/2008 SUPERVISOR: CLAUD SIMS MD:					
7:00 - 7:30	0.50	COMP	48	P	JSA-SAFETY MEETING # 6, DAY 6
7:30 - 15:00	7.50	COMP	31	P	950# ON TBG, BLEED TBG DN SLOW, TBG STARTED FLOWING @ 1/2 B/M, SHUT TBG, PRESSURE BK UP ON TBG TO 500#, W/ BLEED OFF TO 100# IN 25 MIN, SHUT TBG IN, R/U WIRELINE RIH TAG TOP OF CEMENT @ 8072', POSSIBLE CEMENT NOT SET UP, R/D WIRELINE, SDFN.
11/21/2008 SUPERVISOR: CLAUD SIMS MD:					
7:00 - 7:30	0.50	COMP	48	P	JSA-SFETY MEETING #7, DAY 7,
7:30 - 15:30	8.00	COMP	31	P	400# ON TBG, BLEED TBG OFF, R/D FRAC VALVE, PUT TIW VALVE IN TBG, P/U TRY TO RELEASE PACKER, TRY CIRC, JUST PRESSURE UP, WORK TBG TRY TO FREE UP PACKER, NO GOOD, PUMP 10 BBL BRINE WTR DN TBG, 5 BBL BRINE WTR DN CSG, PULLED TBG UP TP 20 POINTS OVER STRING WEIGHT, SHUT WELL IN SDFN,
11/22/2008 SUPERVISOR: CLAUD SIMS MD:					
7:00 - 7:30	0.50	COMP	48	P	JSA-SAFETY MEETING #8, DAY 8
7:30 - 17:30	10.00	COMP	34	A	S 200 # ON TBG, BLEED OFF, R/U J-W WIRELINE, RIH W/FREE POINT TOOL, 7614' TBG FREE, 7763' TBG STUCK, 7740' TBG STUCK, 7700' TBG STUCK, 7671' TBG STUCK, 7640 TBG 70% FREE, POOH W/ WIRELINE, WORK TBG AND TRY TO CIRC HOW WAITING FOR TBG PUNCH. RIH SHOT 4 HOLE w/ @ 1/4" HOLE , @ 7790' TO 7792', POOH, PUMP DN TBG HOW WORKING TBG, COULDN'T CIRC WELL, PRESSURE UP TO 3000#, RIH W/ TBG CUTTER , CUT TBG @ 7786', POOH, WORK TBG AND TRY TO CIRC, COULD NOT CIRC OR MOVE TBG, SHUT WELL IN. SDFN.
11/23/2008 SUPERVISOR: CLAUD SIMS MD:					
7:00 - 7:30	0.50	COMP	48	P	JSA-SAFETY MEETING #9, DAY 9
7:30 - 11:00	3.50	COMP	34	A	P 400# ON TBG, BLOWED DN TO TK, R/U J-W WIRELINE RIH W 1-7/8" CUTTER, CUT TBG @ 7756', POOH, WORK TBG W/ NO MOVEMENT, RIH W/ TBG CUTTER, TRY CUT TBG W/ TOOLS NOT SET BLOW WIRELINE UP HOLE,, WIRELINE DIDNOT HAVE ANY MORE CUTTER, R/D J-W WIRELINE, RELEASE J-W WIRELINE,
11:00 - 12:00	1.00	COMP	31	P	WORK TBG TRY TO FREE UP TBG HOW WAIT FOR CASEDHOLE SOLUTION WIRELINE,
12:00 - 18:30	6.50	COMP	34	A	P R/U CASEDHOLE WIRELINE, RIH W/ TBG CUTTER, CUT TBG @ 7694', POOH, WORK TBG W/ NO MOVEMENT, RIH W TBG CUTTER, CUT TBG @ 7662', POOH, WORK TBG W/ TBG PULLING FREE, R/D WIRELINE, HAVE 5- FISH TOPS, #1 7662', #2 7694', #3 7725', #4 7756', #5 7786', PACKER @ 7800', PUMP 20 BBLs 2% KCL WTR DN TBG, PULLED OUT LAY 3 JTS 2-7/8" TBG, SHUT WELL IN SDFN
11/24/2008 SUPERVISOR: CLAUD SIMS MD:					
7:00 - 7:30	0.50	COMP	48	P	JSA-SAFETY MEETING #10, DAY 10
7:30 - 12:30	5.00	COMP	31	P	200# ON WELL BLOWED DN TO TK, POOH W/ 2-7/8" PH6 TBG LAYING DN ON RACKS,

Wins No.: 95292		NBU 1021-31A					API No.: 4304739111	
	12:30 - 18:00	5.50	COMP	31	I	P	CHANGE OUT BOP RAMS TO 2-3/8", AND TBG EQUIP, P/U FISHING TOOLS AND DRILL COLLERS, BHA = 104.58', TIH W/2-3/8" TBG, TO @ 7500', SHUT WELL IN SDFN	
11/25/2008	SUPERVISOR: CLAUD SIMS						MD:	
	7:00 - 7:30	0.50	COMP	48		P	JSA-SAFETY MEETING #11, DAY 11,	
	7:30 - 10:30	3.00	COMP	31	B	P	200# ONN WELL, BLOWED DN TO TK, RIH W/2-3/8" TBG, TAG FISH TOP @ 7659', R/U POWER SWIVEL & FOAM UNIT, BROKE CIRC W/ FOAM, LATCH ONTO FISH, PULLED FISH #1 FREE, HUNG SWIVEL BACK,	
	10:30 - 16:00	5.50	COMP	31	I	P	TOOH W/ 2-3/8" TBG, WELL STARTED FLOWING, HOOK UP & PUMP 30 BBL WTR, WELL BLOWED WTR BACK, LET THE WELL BLOW DN @ 2 HOURS, FINISH PULL OUT OF HOLE, LAYED DN FISH #1,	
	16:00 - 18:00	2.00	COMP	31	B	P	CHANGE OUT OVERSHOT GRAPLE, WELL BLOWED IN, BLOW WELL DN, RIH W/ FISHING TOOL DRILL COLLERS, AND 2-3/8" TBG, TO @ 5000', SHUT WELL IN SDFN.	
11/26/2008	SUPERVISOR: CLAUD SIMS						MD:	
	7:00 - 7:30	0.50	COMP	48		P	JSA-SAFETY MEETING #12, DAY 12	
	7:30 - 10:30	3.00	COMP	31	B	P	1100# ON WELL, BLOWED DN TO TK, TIH LATCH ONTO FISH # 2 @ 7694', PULLED FISH (2-7/8"TBG ") FREE, (?)	
	10:30 - 12:30	2.00	COMP	31	I	P	TOOH W/ 2-3/8" TBG, NO FISH, CHANGE OUT GRAPLE IN OVERSHOT,	
	12:30 - 15:00	2.50	COMP	31	I	P	TIH W/ FISHING TOOLS, DRILL COLLERS, JARS, BUMPER SUB W/ 2-3/8" TBG, RIH TAG FISH TOP @ 7694', PULLED FISH FREE, (?)	
	15:00 - 17:00	2.00	COMP	31	I	P	TOOH W/ 2-3/8" TBG, NO FISH,	
	17:00 - 18:00	1.00	COMP	31	I	P	CHANGE OUT DRESSING TOOL W/ WASH OVER SHOE ON BOTTOM, TIH W/ 2-3/8" TBG, TO @ 4000', SHUT WELL IN, SDFWE,	
12/1/2008	SUPERVISOR: CLAUD SIMS						MD:	
	7:00 - 7:30	0.50	COMP	48		P	JSA-SAFETY MEETING #13, DAY 13	
	7:30 - 10:00	2.50	COMP	31	I	P	1100# ON WELL, BLOWED DN TO TK, TIH W/ 2-3/8" TBG TO @ 7694',	
	10:00 - 12:30	2.50	COMP	31	B	P	R/U POWER SWIVEL, BROKE CIRC W/ FOAM UNIT, DRESS OFF TOP OF FISH, CIRC WELL CLEAN, R/D POWER SWIVEL,	
	12:30 - 14:30	2.00	COMP	31	I	P	TOOH W/ 2-3/8" TBG AND BHA, CHANGE OUT BOTTOM TOOLS,	
	14:30 - 16:30	2.00	COMP	31	I	P	RIH W/ FISHING TOOLS DRILL COLLERS AND 2-3/8" TBG, TAG TOP OF FISH @ 7694',	
	16:30 - 19:00	2.50	COMP	31	B	P	LATCH ON FISH @ 7694', JAR ON FISH @ 1/2 HOUR, TBG STARTED TO FLOW, HOOKUP KELLYHOSE TO TBG, LET TBG FLOW HOW JARRING AND WORK W/ TBG, JARED FISH #2 FREE, PUMP 20 BBL BRINE WTR DN TBG, KILLING TBG, PULLED OUT 22 JTS 2-3/8" TBG W/ DRAGING ON FIRST 30', SHUT WELL IN SDFN,	
12/2/2008	SUPERVISOR: CLAUD SIMS						MD:	
	7:00 - 7:30	0.50	COMP	48		P	JSA-SAFETY MEETING #14, DAY 14	
	7:30 - 9:30	2.00	COMP	31	I	P	700# ON WELL, BLOWED DN TO TK, TOOH W/ 2-3/8" TBG & FISHING TOOLS, LAYED 1 JT 2-7/8" TBG,	
	9:30 - 12:30	3.00	COMP	31	I	P	P/U 5' WASH SHOE, DRESS OFF TOOL RIH W/ DRILL COLLERS AND 2-3/8" TBG, TAG SAND 7711', TOP OF FISH @ 7721',	
	12:30 - 15:00	2.50	COMP	31	B	P	R/U POWER SWIVEL, BROKE CIRC W/ FOAM UNIT, WASH @ 10' FILL, TAG FISH 7721' WASH OVER AND DRESS OFF TOP OF FISH, CIRC WELL CLEAN, PUMP 60 BBL 2% KCL AND 50 BBL BRAINE WTR FOR WELL CONTROL, R/D POWER SWIVEL	
	15:00 - 17:30	2.50	COMP	31	I	P	TOOH W/ 2-3/8" TBG, LAYED DN WASH SHOE AND SKIRTED MILL,	
	17:30 - 18:30	1.00	COMP	31	I	P	P/U OVER SHOT, TIH W/ BHA AND 2-3/8" TBG TO @ 3000', SHUT WELL IN SDFN.	
12/3/2008	SUPERVISOR: CLAUD SIMS						MD:	
	7:00 - 7:30	0.50	COMP	48		P	JSA-SAFETY MEETING #15, DAY 15	
	7:30 - 9:00	1.50	COMP	31	I	P	100# ON WELL, BLOWED DN TO TK, TIH W/ 2-3/8" TBG, TAG TOP OF FISH @ 7721'	
	9:00 - 9:30	0.50	COMP	31	B	P	LATCH ONTO FISH #3 @ 7721', JARED FISH FREE,	
	9:30 - 12:00	2.50	COMP	31	I	P	TOOH W/ 2-3/8" TBG, LAYED DN FISH #3, BROKE OUT AND LAY DN JARS AND BUMPER SUBS,	
	12:00 - 15:30	3.50	COMP	31	I	P	P/U OVERSHOT, NEW JARS AND BUMPER SUB, RIH W/ DRILL COLLER AND 2-3/8" TBG, TAG FISH TOP @ 7753',	

Wins No.: 95292		NBU 1021-31A					API No.: 4304739111	
	15:30 - 16:30	1.00	COMP	31	B	P	LATCH ONTO FISH #4 @ 7753', JAR FISH FREE, PUMP 50 BRINE WTR KILL PLUG DN TBG,	
	16:30 - 19:00	2.50	COMP	31	I	P	TOOH W/ 2-3/8" TBG, LAYED DN FISH #4, CHANGE OUT BHA TO WASH PIPE TO WASH OVER CUT TBG TO TOP OF PACKER, SHUT WELL IN SDFN,	
12/4/2008	SUPERVISOR: CLAUD SIMS						MD:	
	7:00 - 7:30	0.50	COMP	48		P	JSA-SAFETY MEETING #16, DAY 16	
	7:30 - 9:30	2.00	COMP	31	I	P	700# ON WELL, BLOWED DN TO TK, TIH W/ WASH SHOE, JARS, BUMPER SUB, DRILL COLLERS AND 2-3/8" TBG, TAG FILL @7776',	
	9:30 - 11:30	2.00	COMP	31	B	P	R/U POWER SWIVEL, BROKE CIRC W/ FOAM UNIT, WASH OUT 10' FILL, WASH OVER FISH TOP DN TO TOP OF PACKER, CIRC WELL CLEAN, PUMP 50 BBL BRINE WTR KILL PLUG, R/D POWER SWIVEL,	
	11:30 - 13:30	2.00	COMP	31	I	P	TOOH W/ 2-3/8" TBG, LAYED DN WASH SHOE,	
	13:30 - 16:00	2.50	COMP	31	I	P	P/U OVER SHOT, RIH W/ BHA AND 2-3/8" TBG, PUMP 30 BBLs KCL WTR FOR WELL CONTROL, RIH TAG FISH TOP @7786',	
	16:00 - 16:30	0.50	COMP	31	B	P	LATCH ONTO FISH #5 @ 7786', PICK UP SET JARS OFF ONCE, PACKER DRAG UP HOLE 10', SET BACKDN ON PACKER, P/U TURN PACKER TO LEFT RELEASE PACKER,	
	16:30 - 17:00	0.50	COMP	31	I	P	PULLED OUT 12 STAND 2-3/8" TBG, PACKER PULLING FREE, SHUT WELL IN SDFN.	
12/5/2008	SUPERVISOR: CLAUD SIMS						MD:	
	7:00 - 7:30	0.50	COMP	48		P	JSA-SAFETY MEETING # 17, DAY 17	
	7:30 - 12:30	5.00	COMP	31	I	P	600# ON WELL, BLOWED DN TO TK, PUMP 50 BBL BRINE WTR KILL PLUG DN TBG, TOOH W/ 2-3/8" TBG, LAY DN DRILL COLLERS, PULLED PACKER UP W/ HANGING UP IN WELL HEAD, WORK TRY TO GET PACKER FREE, PULLED BOPS OFF AND GATE VALVE, SLIPS ON PACKER HANGING UP ON PORT OF SIDE GATE VALVE, WORK SLIPS FREE PULLED TOOLS ON OUT OF WELL, NIPPLED UP FRAC VALVE, BROKE OUT FISHING TOOLS AND PACKER,	
	12:30 - 16:30	4.00	COMP	34	I	P	R/U CASED HOLE SOLUTION WIRELINE, RIH W/ 4-1/2" GAUGE RING JUNK BASKET TO 7500', RIH W/ BAKER 8K CBP, SET CBP @ 7468', R/D WIRE LINE, R/U BC QUICK TEST, PRESSURE TEST CBP CSG AND FRAC VALVE TO 6200# (HELD). R/D TESTER, DRAIN UP LINES AND EPUPT, SHUT WELL IN SDFN	
12/8/2008	SUPERVISOR: CLAUD SIMS						MD:	
	6:30 - 18:30	12.00	COMP	36	D	P	R/U SCHLUMBERGER WIRELINE AND FRAC, HOLD SAFETY MEETING W/ ALL CREWS, (STG #2) RIH W PERF GUNS, PERF THE MESA VERDE @ 7436-38', 7408 - 14', 7380 - 82', 4-SPF, USING 3-3/8" EXP GUNS, 23 gm, 0.36 HOLE, 90° PHS, 40 HOLES, WHP = 60#, BRK DN PERF @ 3470# @ 5 B/M, INJ-RT = 20.3 B/M, INJ-P = 4166#, ISIP = 1920 #, F.G. = 0.69, PUMP 3 BBLs 15 % HCL AHEAD OF INJ., CALC 72% PERF OPEN, PMPED 1093 BBLs 25 # GEL, & 97700 # 20/40 SAND, STARTED FLUCH WHEN 8# SAND HIT PERF, SCREEN OFF, FLOWED WELL BACK FOR 30 MIN HOOK BACK UP PUMP 115 BBLs WTR CLEAR WELL BORE, MP = 8357#, MR = 20.3 B/M, AP = 3740#, AR = 20.3 B/M, (STG #3) RIH W BAKER 8K CBP & PERF GUNS, SET DN @ 7330', WIRELINE STUCK IN HOLE, PUMP DN CSG W/ WIRELINE NO MOVEMENT, BLEEDING WELL DN, MOVE WIRE LINE @ 10, KEPT PRESSURE UP AND BLEEDING OFF, MOVE WIRE LINE UP TO @ 7230', COULD NOT MOVE WIRELINE ANYMORE, TRY TO PULL OUT OF WIRELINE ROPE SCOKET, SHEAR OFF CBP, PULLED OUT OF HOLE, RIH W/ SINKER BARS, TAG UP @ 7236', R/D SCHLUMBERGER WIRELINE AND FRAC, SHUT WELL IN, SDFN, WAIT ON COIL TBG UNIT.	
12/9/2008	SUPERVISOR: CLAUD SIMS						MD:	
	7:00 - 15:00	8.00	COMP	30		S	WAIT ON COIL TBG, STANBY	
12/10/2008	SUPERVISOR: CLAUD SIMS						MD:	
	7:00 - 7:30	0.50	COMP	48		P	JSA-SAFETY MEETING # 20, DAY 20	
	7:30 - 14:00	6.50	COMP	32	A	P	R/U COIL TBG SERVICE, PRESSURE TEST EQUIP TO 5000#, (OK)	

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12/16/2008 9:15:39AM

DEC 22 2008

12

DIV. OF OIL, GAS & MINING

Wins No.: 95292		NBU 1021-31A				API No.: 4304739111	
14:00 - 23:00	9.00	COMP	32	A	P	RIH W/ 1-1/2" COIL W/ MUD MOTOR AND 3-7/8" MILL, TAG @ 7154', WASH OUT FILL TO 7221' FELL FREE, TAG CBP @ 7330', DRILL OUT CBP RIH TAG CBP 7468', CIRC WELL TWO TIMES AROUND, PULLED OUT W/ COIL, BLOWED COIL TBG OUT DRY W/ N2, R/D COIL TBG UNIT. SHUT WELL IN SDFN.	
12/11/2008	<u>SUPERVISOR:</u> CLAUD SIMS					<u>MD:</u>	
6:30 - 7:00	0.50	COMP	48		P	JSA-SAFETY MEETING #21, DAY 21	
7:00 - 9:00	2.00	COMP	34	G	P	R/U SCHLUMBERGER WIRELINE, RIH W/ GAUGE RING TO @ 7360'	
9:00 - 18:00	9.00	COMP	36	B	P	(STG #3) RIH W/ BAKER 8K CBP & PERF GUNS SET CBP @ 7350', PERF THE MESA VERDE @ 7322 - 26', 7311 - 13', 7282 - 84', 4-SPF, USING 3-3/8" EXP GUNS, 23gm, 0.36 HOLE, 90° PHS, 32 HOLES, WHP = 150 # R/U SCHLUMBERGER FRAC, HELD SAFETY MEETING W/ ALL CREWS, PRESSURE TEST LINE TO 7200#, BRK DN PERF 5359# @ 6 B/M, INJ-RT = 20.1 B/M, INJ-P = 4430 #, ISIP = 3050#, F.G.= 0.85 PUMPED 3 BBLS 15% HCL AHEAD OF INJ., CALC 72% PERF OPEN, PUMP 932 BBLS GEL WTR & 98423 # SAND, ISIP = 4050 #, F.G.= 0.98 NPI = 1000, MP = 4664 #, MR = 20.6 B/M, AP = 4115 #, AR 19 B/M, (STG #4) RIH W/ BAKER 8K CBP & PERF GUNS SET CBP @ 7112', PERF THE MV & WASATCH @ 7078 - 82', 7032 - 34', 7010 - 12', 6976 - 78', 6930 - 32', 4-SPF, USING 3-3/8" EXP GUNS, 23gm, 0.36 HOLE, 90° PHS, 48 HOLES, WHP = 844 # BRK DN PERF @ 2791# @ 7 B/M, INJ-RT = 20.2 B/M, INJ-P = 4125 #, ISIP = 2450 #, F.G.= 0.78 , CALC 65% PERF OPEN, PUMP 706 BBLS GEL WTR & 84998 # SAND, ISIP = 4000 # F.G.= 1.00, NPI = 1550 , MP = 4426 #, MR =20.6 B/M, AP = 3901 #, AR = 19.5 B/M, (STG #5) RIH W/ BAKER 8K CBP & PERF GUNS, SET CBP @ 6890', PERF THE WASATCH @ 6858 - 62', 6830 - 32', 6810 - 12', 6770 - 72', 6764 - 66', 4- SPF, USING 3-3/8" EXP GUNS, 23gm, 0.36 HOLE, 90° PHS, 48 HOLES, WHP = 2360 #, BRK DN PERF 4445# @ 5 B/M, INJ-RT = 21 B/M, INJ-P = 3850#, ISIP = 2850#, F.G.= 0.84, CALC 79% PERF OPEN, PUMPED 691 BBLS GEL WTR & 84640# SAND, ISIP = 3500#, F.G.= 0.94, NPI = 650, MP = 4015#, MR = 21 B/M, AP = 3597#, AR = 20.3 B/M, (STG #6) RIH W/ BAKER 8K CBP & PERF GUNS, SET CBP @ 6628', PERF THE WASATCH @ 6596 - 98', 6574 - 76', 6534 - 38', 6476 - 78', 6442 - 44', 4- SPF, USING EXP GUNS, 23gm, 0.36 HOLE, 90° PHS, 48 HOLES, WHP = 550 #, BRK DN PERF @ 2647 # @ 5 B/M, INJ-RT = 20.9 B/M, INJ-P = 3400 #, ISIP = 1640#, F.G.= 0.68, CALC 68% PERF OPEN, PUMPED 415 BBLS OF GEL WTR & 43472 # SAND, ISIP = 3000 #, F.G.= 0.89, NPI = 1360, MP = 3471 #, MR = 21 B/M, AP = 3083 #, AR = 20 B/M, SHUT WELL IN, DRAIN UP AND PICKLE ALL PUMP LINES AND PUMP, SDFN	
12/12/2008	<u>SUPERVISOR:</u> CLAUD SIMS					<u>MD:</u>	
6:30 - 7:00	0.50	COMP	48		P	JSA-SAFETY MEETING #22, DAY 22	

7:00 - 13:00	6.00	COMP	36	B	P	<p>R/U SCHLUMBERGER WIRELINE, (STG #7) RIH W/ BAKER 8K CBP & PERF GUNS, SET CBP @ 6415', PERF THE WASATCH @ 6382 = 85', 6344 - 45', 6315 - 17', 6289 - 91', 6274 - 76', 6252 - 54', 6228 - 30', 4- SPF, USING 3-3/8" EXP GUNS, 23gm, 0.36 HOLE, 90° PHS, 56 HOLES, WHP = 248 #, BRK DN PERF @ 2715 # @ 3 B/M, INJ-RT = 20.9 B/M, INJ-P = 3240 #, ISIP = 2050 #, F.G.= 0.76, CALC 83% PERF OPEN, PUMPED 410 BBLS GEL WTR & 43940 # 20/40 OTTAWA SAND, ISIP = 2900#, F.G.= 0.89, NPI = 850, MP = 3312#, MR = 21 B/M, AP = 3003#, AR = 20.2 B/M,</p> <p>(STG #8) RIH W/ BAKER 8K CBP & PERF GUNS, SET CBP @ 6020', PERF THE WASATCH @ 59832 - 84', 5940 - 42', 5931 - 33', 5917 - 19', 5875 - 76', 5870 - 71', 5862 - 64', 4-SPF, USING 3-3/8" EXP GUNS, 23 gm, 0.36 HOLE, 48 HOLES, WHP = 800 # BRK DN PERF @ 2344 # @ 5 B/M, INJ-RT = 20.8 B/M, INJ-P = 2800 #, ISIP = 1800 #, F.G.= 0.73 , CALC 73% PERF OPEN, PUMPED 411 BBLS GEL WTR & 45064 # 20/40 OTTAWA SAND, ISIP = 2400 #, F.G.= 0.84 NPI = 600 , MP = 2856 #, MR = 21 B/M, AP = 2555 #, AR = 20.3 B/M,</p> <p>(STG #9) RIH W/ BAKER 8K CBP & PERF GUNS, SET CBP @ 5816', PERF THE WASATCH @ 5784 - 86', 5722 - 24', 5698 - 5700', 4-SPF, USING 3-3/8" EXP GUNS, 23 gm, 0.36 HOLE, 90° PHS, 24 HOLES, WHP = 1125 #, BRK DN PERF @ 5244 # @ 6 B/M, INJ-RT = 20.8 B/M, INJ-P = 3066 #, ISIP = 2000 #, F.G.= 0.78 , CALC 86% PERF OPEN, PUMPED 444 BBLS GEL WTR & 56420 # 20/40 SAND, ISIP = 2360 #, F.G.= 0.84 , NPI = 360 , MP = 3178 #, MR = 21 B/M, AP = 2783 #, AR = 20.6 B/M,</p> <p>(KILL PLUG) RIH W/ BAKER 8K CBP, SET CBP @ 5600', POOH, R/D SCHLUMBERGER WIRELINE AND FRAC.</p> <p>TOTAL FLUID = 5898 BBLS GEL WTR TOTAL SAND = 614799 # 20/40 SAND TOTAL NALCO SCALE INHIB = 623 GALS. TOTAL NALCO BIOCIDES = 108 GALS TOTAL J-583 CLAYTREAT = 507 GALS TOTAL J-580 GEL = 3858 LBS TOTAL J-218 BREAKER = 75 LBS TOTAL J-532 X-LINKER = 471 GALS TOTAL J-475 BREAKER = 386 LBS</p>
13:00 - 16:00	3.00	COMP	31	I	P	<p>BLOWED WELL DN, N/D FRAC VALVE, N/U BOPS, R/U TBG EQUIP. P/U 3-7/8" MILL AND SLIDING SLEEVE, RIH W/ 2-3/8" TBG TO @ 5000', DRAIN UP LINES SDFN.</p>

12/13/2008 SUPERVISOR: CLAUD SIMS MD:

7:00 - 7:30	0.50	COMP	48		P	JSA-SAFETY MEETING # 23, DAY 23
7:30 - 18:00	10.50	COMP	44	C	P	<p>RIH TAG CBP @ 5600', R/U POWER SWIVEL, BROKE CIRC, (DRLG CBP #1) 5600', DRLG OUT BAKER 8K CBP IN 20 MIN, 400# DIFF, LET WELL EQUALIZE, RIH TAG 5816', C/O 0' SAND, FCP = 200#,</p> <p>(DRLG CBP #2) 5816', DRLG OUT BAKER 8K CBP IN 60 MIN, 0# DIFF, RIH TAG FILL 5988', C/O 26' SAND, FCP = 200#</p> <p>(DRLG CBP #3) 6014', DRLG OUT BAKER 8K CBP IN 60 MIN, 0# DIFF, RIH TAG 6410', C/O 5' SAND, FCP = 50#,</p> <p>(DRLG CBP #4) 6415', DRILL OUT BAKER 8K CBP IN 45 MIN, 0# DIFF, C/O TO 6440'</p> <p>BLOWED WELL CLEAN W/ FOAM UNIT, P/O LAYED DN 30 JT 2-3/8" TBG, SWIFN, SD</p>

12/14/2008 SUPERVISOR: CLAUD SIMS MD:

7:00 - 7:30	0.50	COMP	48		P	JSA-SAFETY MEETING # 24, DAY 24
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DEC 22 2008

Wins No.: 95292		NBU 1021-31A				API No.: 4304739111	
7:30	- 7:30	0.00	COMP	44	C	P	<p>500# ON WELL, BLOWED DN TO TK, TIH W/ 2-3/8" TBG, TAG @ 6620', FOAM UNIT AIR FROZE UP, UNTHAUGHTED FOAM UNIT, BROKE CIRC W/ FOAM UNIT, CLEAN OUT 8' SAND,</p> <p>(DRLG CBP #5) 6628', DRILL OUT BAKER 8K CBP IN 60 MIN, 350# DIFF, RIH TAG @ 6830', C/O 62' SAND, FCP = 300#,</p> <p>(DRLG CBP #6) 6892', DRILL OUT BAKER 8K CBP IN 60 MIN, 0# DIFF, RIH TAG @ 7068', C/O 44' SAND, FCP = 250#,</p> <p>(DRLG CBP #7) 7112', DRILL OUT BAKER 8K CBP IN 35 MIN, 0# DIFF, RIH TAG @ 7315', C/O 37' SAND, FCP = 150#,</p> <p>(DRLG CBP #8) 7352', DRILL OUT BAKER 8K CBP IN 60 MIN, 0# DIFF, RIH TAG SAND @ 7438', C/O 30' SAND, FCP = 150#,</p> <p>(DRLG CBP #9) 7468', DRILL OUT BAKER 8K CBP IN 60 MIN, 50# DIFF, RIH TAG SAND @ 8005', C/O 67' SAND, FCP = 200#</p> <p>(DRLG CEMENT PLUG #10) 8072', DRILL OUT CEMENT PLUG IN 5 MIN, 0# DIFF, RIH TAG SAND @ 8130', C/O 16' SAND, CIRC WELL CLEAN, PBD 8146', CBP AT 8156',</p> <p>R/D POWER SWIVEL, POOH LAY DN 26 JTS ON PIPE TRAILER, LAND TBG ON HANGER W/ 233 JTS 2-3/8" J-55 TBG, EOT @ 7088', R/D FLOOR & TBG EQUIP., N/D BOPS, N/U WELL HEAD, R/U DELSCO SLICKLINE, RIH CHANGE OUT SLIDING SLEEVE PORTS, R/D SLICKLINE,</p> <p>AVG 60 MIN PER PLUG, W/ 261' SAND,</p> <p>KB = 18.00' HANGER = .83' 225 JTS 2-3/8" J-55 TBG = 7064.70' FAST EDDIE SLIDING SLEEVE = 4.40'</p> <p>EOT = 7087.93"</p>
12/15/2008	SUPERVISOR: CLAUD SIMS	7:00 - 15:00	8.00	COMP	30	P	<p>R/D SERVICE UNIT AND EQUIPT, MOVED OFF LOC, RELEASE RIG, HOOK UP FOAM UNIT BLOWED WELL AROUND, WELL FLOWING TO TK ON 48/64 CHOKE 700# ON TBG 1200# ON CSG, TURN WELL OVER TO FBC,</p>
12/15/2008	SUPERVISOR: -	7:00 -			33	A	<p>7 AM FLBK REPORT: CP 100#, TP 100#, 32/64" CK, 24 BWPH, TRACE SAND, - GAS TTL BBLS RECOVERED: 1022 BBLS LEFT TO RECOVER: 6578</p>
12/16/2008	SUPERVISOR: -	7:00 -			33	A	<p>7 AM FLBK REPORT: CP 1300#, TP 450#, 24/64" CK, 20 BWPH, TRACE SAND, - GAS TTL BBLS RECOVERED: 1582 BBLS LEFT TO RECOVER: 6018</p>

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DEC 22 2003

DIV. OF OIL, GAS & MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT ☐ FORM 8
(highlight changes)

5. LEASE DESIGNATION AND SERIAL NUMBER:
ML-22794

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ OTHER

b. TYPE OF WORK: NEW WELL ☐ HORIZ. LATS. ☐ DEEP-EN ☐ RE-ENTRY ☐ DIFF. RESVR. ☒ OTHER RECOMPLETE

2. NAME OF OPERATOR:
KERR McGEE OIL & GAS ONSHORE LP

3. ADDRESS OF OPERATOR: 1368 S 1200 E CITY VERNAL STATE UT ZIP 84078
PHONE NUMBER: (435) 781-7024

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE: 744'FNL, 815'FEL

AT TOP PRODUCING INTERVAL REPORTED BELOW:

AT TOTAL DEPTH:

7. UNIT or CA AGREEMENT NAME
UNIT #891008900A

8. WELL NAME and NUMBER:
NBU 1021-31A

9. API NUMBER:
4304739111

10. FIELD AND POOL, OR WILDCAT
NATURAL BUTTES

11. QTR/QTR, SECTION, TOWNSHIP, RANGE,
MERIDIAN:
NENE 31 10S 21E

12. COUNTY
UINTAH

13. STATE
UTAH

14. DATE SPURRED: 10/10/2007 15. DATE T.D. REACHED: 11/12/2007 16. DATE COMPLETED: 12/16/2008
ABANDONED ☐ READY TO PRODUCE ☒

17. ELEVATIONS (DF, RKB, RT, GL):
5293'GL

18. TOTAL DEPTH: MD 9,100 TVD 19. PLUG BACK T.D.: MD 8,146 TVD 20. IF MULTIPLE COMPLETIONS, HOW MANY? * 21. DEPTH BRIDGE MD PLUG SET: TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)

N/A

23. WAS WELL CORED? NO ☒ YES ☐ (Submit analysis)
WAS DST RUN? NO ☒ YES ☐ (Submit report)
DIRECTIONAL SURVEY? NO ☒ YES ☐ (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
20"	14" STL	36.7#		40		28			
12 1/4"	9 5/8 J-55	36#		1,955		485			
7 7/8"	4 1/2 I-80	11.6#		9,100		1615			

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	7,088							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
(A) WASATCH	5,698	7,082			5,698 7,082	0.36	262	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(B) MESAVERDE	7,282	8,126			7,282 8,126	0.36	112	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

27. PERFORATION RECORD

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
5698'-7082'	PMP 3077 BBLs YF120 ST & 358,534# 20/40 SD
7282'-8126'	PMP 2621 BBLs YF120ST & 256,265# 20/40 SD

29. ENCLOSED ATTACHMENTS:

☐ ELECTRICAL/MECHANICAL LOGS ☐ GEOLOGIC REPORT ☐ DST REPORT ☐ DIRECTIONAL SURVEY
☐ SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION ☐ CORE ANALYSIS ☐ OTHER:

30. WELL STATUS:

PROD

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 12/16/2008		TEST DATE: 12/21/2008		HOURS TESTED: 10		TEST PRODUCTION RATES: →	OIL – BBL: 0	GAS – MCF: 706	WATER – BBL: 0	PROD. METHOD: FLOWING
CHOKE SIZE: 20/64	TBG. PRESS. 368	CSG. PRESS. 676	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL: 0	GAS – MCF: 706	WATER – BBL: 0	INTERVAL STATUS: PROD

INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED: 12/16/2008		TEST DATE: 12/21/2008		HOURS TESTED: 10		TEST PRODUCTION RATES: →	OIL – BBL: 0	GAS – MCF: 706	WATER – BBL: 0	PROD. METHOD: FLOWING
CHOKE SIZE: 20/64	TBG. PRESS. 368	CSG. PRESS. 676	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL: 0	GAS – MCF: 706	WATER – BBL: 0	INTERVAL STATUS: PROD

INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

SOLD

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
WASATCH MESAVERDE	4,185 7,024	7,014 8,976			

35. ADDITIONAL REMARKS (Include plugging procedure)

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) SHEILA UPCHEGO

TITLE REGULATORY ANALYST

SIGNATURE

DATE 1/12/2009

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- recompleting to a different producing formation
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940